

FCC

RF

TEST REPORT

ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**X1 MAX FDD-LTE Smartphone**

ISSUED TO  
TP-LINK Technologies Co., Ltd.

Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and Technology Park,  
Shennan Road, Nanshan District, Shenzhen City, Guangdong Province,  
P.R. China.



Tested by: Heng Aiping  
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Date: May 15, 2017

Approved by: Liao Jianming  
Liao Jianming  
(Technical Director)

Date: May 15, 2017

Report No.: BL-SZ1730238-501

EUT Name: X1 MAX FDD-LTE Smartphone

Model Name: TP903C

Brand Name: neffos

Test Standard: 47 CFR Part 2 (10-1-15 Edition)  
47 CFR Part 22 (10-1-16 Edition)  
47 CFR Part 24 (10-1-16 Edition)

FCC ID: TE7X1MAXV1

Test Conclusion: Pass

Test Date: Apr. 20, 2017 ~ Apr. 25, 2017

Date of Issue: May 15, 2017

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**Revision History**

| <u>Version</u> | <u>Issue Date</u>   | <u>Revisions Content</u> |
|----------------|---------------------|--------------------------|
| <u>Rev. 01</u> | <u>May 15, 2017</u> | <u>Initial Issue</u>     |

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## 1 GENERAL INFORMATION

### 1.1 Identification of the Testing Laboratory

|              |                                                                                                                                  |
|--------------|----------------------------------------------------------------------------------------------------------------------------------|
| Company Name | Shenzhen BALUN Technology Co., Ltd.                                                                                              |
| Address      | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China. |
| Phone Number | +86 755 6685 0100                                                                                                                |
| Fax Number   | +86 755 6182 4271                                                                                                                |

### 1.2 Identification of the Responsible Testing Location

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location 1            | Shenzhen BALUN Technology Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Address                    | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Accreditation Certificate1 | <p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p> |
| Description                | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055                                                                                                                                                                                                                                                                                                                                           |

### 1.3 Test Environment Condition

|                           |              |
|---------------------------|--------------|
| Ambient Temperature       | 20 to 35 °C  |
| Ambient Relative Humidity | 30 to 60 %   |
| Ambient Pressure          | 98 to 102KPa |

## 1.4 Announce

- (1) The test report reference to the report template version v2.0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant | TP-LINK Technologies Co., Ltd.                                                                                                                     |
| Address   | Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and Technology Park, Shennan Road, Nanshan District, Shenzhen City, Guangdong Province, P.R. China |

### 2.2 Manufacturer Information

|              |                                                                                                                                                    |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer | TP-LINK Technologies Co., Ltd.                                                                                                                     |
| Address      | Building 24-1F/3F/4F/5F, 28-1F/2F/3F/4F Science and Technology Park, Shennan Road, Nanshan District, Shenzhen City, Guangdong Province, P.R. China |

### 2.3 Factory Information

|         |     |
|---------|-----|
| Factory | N/A |
| Address | N/A |

### 2.4 General Description for Equipment under Test (EUT)

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Name                                  | X1 MAX FDD-LTE Smartphone                                                                                                                                                                                                                                                                                                                                                                                                  |
| Model Name                                | TP903C                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Series Model Name                         | TP903CXYZZ, TP903C                                                                                                                                                                                                                                                                                                                                                                                                         |
| Description of Model name differentiation | The equipment model TP903C and TP903CXYZZ(X=2 or 4 (2 indicates Cloudy Grey, 4 indicates Sunrise Gold); Y=6 or A (A indicates the memory is 4G RAM + 64G Flash, 6 indicates the memory is 3G RAM + 32G Flash); ZZ indicates different national.) are the EUT model, the electrical parameters and internal structure of circuit are same. Only the model name, colors, memory versions and shipping country are different. |
| Hardware Version                          | N/A                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Software Version                          | N/A                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimensions (Approx.)                      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Weight (Approx.)                          | N/A                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Network and Wireless connectivity         | 2G Network GSM GPRS/EDGE 850/1900 MHz<br>3G Network WCDMA HSDPA/HSUPA Band 2/4/5<br>4G Network FDD Band 2/4/7<br>Bluetooth 3.0, Bluetooth 4.0 Low Energy (BLE),<br>WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40)<br>FM, GPS, GLONASS                                                                                                                                                                                    |

## 2.5 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

|                    |                                                                                                                                                                                                                                                                                                                        |               |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Frequency Bands    | GSM/GPRS/EGPRS 850/1900<br>WCDMA/HSDPA/HSUPA Band 2/ 4/ 5<br>LTE FDD Band 2/ 4/ 7                                                                                                                                                                                                                                      |               |
| Modulation Type    | GSM/GPRS                                                                                                                                                                                                                                                                                                               | GMSK          |
|                    | EGPRS                                                                                                                                                                                                                                                                                                                  | 8PSK          |
|                    | WCDMA                                                                                                                                                                                                                                                                                                                  | QPSK          |
|                    | HSDPA                                                                                                                                                                                                                                                                                                                  | QPSK          |
|                    | /HSUPA                                                                                                                                                                                                                                                                                                                 | 16QAM         |
|                    | LTE                                                                                                                                                                                                                                                                                                                    | QPSK<br>16QAM |
| TX Frequency Range | GSM/GPRS/EGPRS 850: 824 - 849 MHz<br>GSM/GPRS/EGPRS 1900: 1850 - 1910 MHz<br>WCDMA/HSDPA/HSUPA Band 2: 1850 -1910 MHz<br>WCDMA/HSDPA/HSUPA Band 4: 1710 - 1755 MHz<br>WCDMA/HSDPA/HSUPA Band 5: 824 - 849 MHz<br>LTE FDD Band 2: 1850 - 1910 MHz<br>LTE FDD Band 4: 1710 - 1755 MHz<br>LTE FDD Band 7: 2500 - 2570 MHz |               |
| Rx Frequency Range | GSM/GPRS/EGPRS 850: 869 - 894 MHz<br>GSM/GPRS/EGPRS 1900: 1930 - 1990 MHz<br>WCDMA/HSDPA/HSUPA Band 2: 1930 - 1990 MHz<br>WCDMA/HSDPA/HSUPA Band 4: 2110 - 2155 MHz<br>WCDMA/HSDPA/HSUPA Band 5: 869 - 894 MHz<br>LTE FDD Band 2: 1930 - 1990 MHz<br>LTE FDD Band 4: 2110 - 2155 MHz<br>LTE FDD Band 17: 734- 746 MHz  |               |
| Power Class        | GSM/GPRS 850: 4<br>GSM/GPRS 1900: 1<br>EGPRS 850/1900: E2<br>WCDMA/HSDPA/HSUPA Band 2: 3<br>WCDMA/HSDPA/HSUPA Band 4: 3<br>WCDMA/HSDPA/HSUPA Band 5: 3<br>LTE FDD Band 2: 3<br>LTE FDD Band 4: 3<br>LTE FDD Band 7: 3                                                                                                  |               |
| Multislot Class    | GPRS/EGPRS: 12                                                                                                                                                                                                                                                                                                         |               |
| Antenna Type       | PIFA Antenna                                                                                                                                                                                                                                                                                                           |               |
| Antenna Gain       | GSM/GPRS/EGPRS 850: -3.17 dBi<br>GSM/GPRS/EGPRS 1900:-0.3 dBi<br>WCDMA/HSDPA/HSUPA Band 2: -0.3 dBi<br>WCDMA/HSDPA/HSUPA Band 4: 0.6 dBi<br>WCDMA/HSDPA/HSUPA Band 5: -3.17 dBi                                                                                                                                        |               |

|  |                          |
|--|--------------------------|
|  | LTE FDD Band 2: -0.3 dBi |
|  | LTE FDD Band 4: 0.6 dBi  |
|  | LTE FDD Band 7: 0 dBi    |

Note: The EUT information are declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or user's manual.

## 2.6 Ancillary Equipment

|                       |                  |                                        |
|-----------------------|------------------|----------------------------------------|
| Ancillary Equipment 1 | Battery          |                                        |
|                       | Brand Name       | neffos                                 |
|                       | Model No.        | NBL-35A3000                            |
|                       | Serial No.       | N/A                                    |
|                       | Capacitance      | 3000 mAh                               |
|                       | Rated Voltage    | 3.85 V                                 |
|                       | Limited Voltage  | 4.40 V                                 |
| Ancillary Equipment 2 | Adapter          |                                        |
|                       | Brand Name       | neffos                                 |
|                       | Model No.        | N090200-2B3 (US Plug)                  |
|                       | Serial No.       | N/A                                    |
|                       | Rated Input      | 100-240 V~, 0.3 A, 50/60 Hz            |
|                       | Rated Output     | 5 V=, 3 A or 9 V=, 2 A or 12 V=, 1.5 A |
| Ancillary Equipment 3 | USB Cable        |                                        |
|                       | Length (Approx.) | 100 cm                                 |
| Ancillary Equipment 4 | Earphone         |                                        |
|                       | Length (Approx.) | 125 cm                                 |

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                                | Document Title                                                                         |
|-----|-----------------------------------------|----------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2<br>(10 – 1 – 15 Edition)  | Frequency Allocations and Radio Treaty Matters;<br>General Rules and Regulations       |
| 2   | 47 CFR Part 22<br>(10 – 1 – 16 Edition) | Public Mobile Services                                                                 |
| 3   | 47 CFR Part 24<br>(10 – 1 – 16 Edition) | Personal Communications Services                                                       |
| 4   | TIA/EIA 603.D-2010                      | Land Mobile FM or PM Communications Equipment Measurement<br>and Performance Standards |
| 5   | KDB 971168<br>D01 v02r02                | Measurement Guidance for Certification of Licensed Digital<br>Transmitters             |

### 3.2 Test Verdict

| No. | Description                            | FCC Part No.               | Test Result                | Verdict |
|-----|----------------------------------------|----------------------------|----------------------------|---------|
| 1   | Conducted RF Output Power              | 2.1046                     | Reporting only (ANNEX A.1) | Pass    |
| 2   | Effective (Isotropic) Radiated Power   | 2.1046<br>22.913<br>24.232 | ANNEX A.1                  | Pass    |
| 3   | Peak to average ratio                  | 2.1046<br>24.232(d)        | ANNEX A.2                  | Pass    |
| 4   | Occupied Bandwidth                     | 2.1049<br>22.917           | ANNEX A.3                  | Pass    |
| 5   | Frequency Stability                    | 2.1055<br>22.355<br>24.235 | ANNEX A.4                  | Pass    |
| 6   | Spurious Emission at Antenna Terminals | 2.1051<br>22.917<br>24.238 | ANNEX A.5                  | Pass    |
| 7   | Band Edge                              | 2.1051<br>22.917<br>24.238 | ANNEX A.6                  | Pass    |
| 8   | Field Strength of Spurious Radiation   | 2.1053<br>22.917<br>24.238 | ANNEX A.7                  | Pass    |

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

|                             |                       |        |
|-----------------------------|-----------------------|--------|
| Test Voltage of The EUT     | NV (Normal Voltage)   | 3.85 V |
|                             | LV (Low Voltage)      | 3.4 V  |
|                             | HV (High Voltage)     | 4.4 V  |
| Test Temperature of The EUT | LT (Low Temperature)  | 0 °C   |
|                             | HT (High Temperature) | 40 °C  |

### 4.2 Test Equipment List

| Description                           | Manufacturer            | Model         | Serial No.             | Cal. Date  | Cal. Due   |
|---------------------------------------|-------------------------|---------------|------------------------|------------|------------|
| Spectrum Analyzer                     | ROHDE&SCHWARZ           | FSV-30        | 103118                 | 2016.07.13 | 2017.07.12 |
| Spectrum Analyzer                     | AGILENT                 | E4440A        | MY45304434             | 2016.11.08 | 2017.11.07 |
| Universal Radio Communication Tester  | ROHDE&SCHWARZ           | CMU 200       | 123666                 | 2016.11.08 | 2017.11.07 |
| Wireless Communications Test Set      | ROHDE&SCHWARZ           | CMW 500       | 102318                 | 2016.07.13 | 2017.07.12 |
| EMI Receiver                          | ROHDE&SCHWARZ           | ESRP          | 101036                 | 2016.07.05 | 2017.07.04 |
| Power Splitter                        | KMW                     | DCPD-LDC      | 1305003215             | --         | --         |
| Power Sensor                          | ROHDE&SCHWARZ           | NRP-Z21       | 103971                 | 2016.07.13 | 2017.07.12 |
| Attenuator (20 dB)                    | KMW                     | ZA-S1-201     | 110617091              | --         | --         |
| Attenuator (6 dB)                     | KMW                     | ZA-S1-61      | 1305003189             | --         | --         |
| DC Power Supply                       | ROHDE&SCHWARZ           | IT6863A       | 60001401068<br>7210020 | 2016.07.13 | 2017.07.12 |
| Temperature Chamber                   | ANGELANTIONI<br>SCIENCE | SP20          | 1412                   | 2016.07.13 | 2017.07.12 |
| Test Antenna-<br>Loop(9 kHz-30 MHz)   | SCHWARZBECK             | FMZB 1519     | 1519-037               | 2015.07.22 | 2017.07.21 |
| Test Antenna-<br>Bi-Log(30 MHz-3 GHz) | SCHWARZBECK             | VULB 9163     | 9163-624               | 2015.07.22 | 2017.07.21 |
| Test Antenna-<br>Horn(1-18 GHz)       | SCHWARZBECK             | BBHA<br>9120D | 9120D-1148             | 2015.07.22 | 2017.07.21 |
| Test Antenna-<br>Horn(15-26.5 GHz)    | SCHWARZBECK             | BBHA 9170     | 9170-305               | 2015.07.22 | 2017.07.21 |
| Anechoic Chamber                      | RAINFORD                | 9m*6m*6m      | N/A                    | 2017.02.21 | 2019.02.20 |
| Shielded Enclosure                    | ChangNing               | CN-130701     | 130703                 | --         | --         |

### 4.3 Test Configurations

| Test Items                             | Test Mode    | Test Channel |     |     |
|----------------------------------------|--------------|--------------|-----|-----|
|                                        |              | LCH          | MCH | HCH |
| E.R.P/E.I.R.P                          | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | GPRS 850     | v            | v   | v   |
|                                        | GPRS 1900    | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 4 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
|                                        | HSUPA Band 2 | v            | v   | v   |
|                                        | HSUPA Band 4 | v            | v   | v   |
|                                        | HSUPA Band 5 | v            | v   | v   |
|                                        | HSDPA Band 2 | v            | v   | v   |
|                                        | HSDPA Band 4 | v            | v   | v   |
|                                        | HSDPA Band 5 | v            | v   | v   |
| Peak to Average Ratio                  | WCDMA Band 2 | v            | v   | v   |
| Occupied Bandwidth                     | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 4 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
| Frequency Stability                    | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | GPRS 850     | v            | v   | v   |
|                                        | GPRS 1900    | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 4 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
| Spurious Emission at Antenna Terminals | GSM 850      | v            | v   | v   |
|                                        | GSM 1900     | v            | v   | v   |
|                                        | EGPRS 850    | v            | v   | v   |
|                                        | EGPRS 1900   | v            | v   | v   |
|                                        | WCDMA Band 2 | v            | v   | v   |
|                                        | WCDMA Band 4 | v            | v   | v   |
|                                        | WCDMA Band 5 | v            | v   | v   |
| Band Edge                              | GSM 850      | v            | --  | v   |
|                                        | GSM 1900     | v            | --  | v   |

| Test Items                           | Test Mode    | Test Channel |     |     |
|--------------------------------------|--------------|--------------|-----|-----|
|                                      |              | LCH          | MCH | HCH |
|                                      | EGPRS 850    | v            | --  | v   |
|                                      | EGPRS 1900   | v            | --  | v   |
|                                      | WCDMA Band 2 | v            | --  | v   |
|                                      | WCDMA Band 4 | v            | --  | v   |
|                                      | WCDMA Band 5 | v            | --  | v   |
| Field Strength of Spurious Radiation | GSM 850      | v            | v   | v   |
|                                      | GSM 1900     | v            | v   | v   |
|                                      | EGPRS 850    | v            | v   | v   |
|                                      | EGPRS 1900   | v            | v   | v   |
|                                      | WCDMA Band 2 | v            | v   | v   |
|                                      | WCDMA Band 4 | v            | v   | v   |
|                                      | WCDMA Band 5 | v            | v   | v   |

Note 1: The mark “v” means that this configuration is chosen for testing.

| LTE Band                               | Bandwidth (MHz) |    |    |    |    |    | Modulation |        | RB# |      |      | Test Channel |     |     |
|----------------------------------------|-----------------|----|----|----|----|----|------------|--------|-----|------|------|--------------|-----|-----|
|                                        | 1.4             | 3  | 5  | 10 | 15 | 20 | QPSK       | 16-QAM | 1   | Half | Full | LCH          | MCH | HCH |
| E.R.P/E.I.R.P                          |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | v    | v    | v            | v   | v   |
| 4                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | v    | v    | v            | v   | v   |
| 7                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | v    | v    | v            | v   | v   |
| Peak to Average Ratio                  |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | --              | -- | -- | -- | -- | v  | v          | v      | v   | --   | v    | v            | v   | v   |
| 5                                      | --              | -- | -- | v  | n  | n  | v          | v      | v   | --   | v    | v            | v   | v   |
| 7                                      | --              | -- | -- | v  | n  | n  | v          | v      | v   | --   | v    | v            | v   | v   |
| Occupied Bandwidth                     |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | v      | --  | --   | v    | v            | v   | v   |
| 5                                      | v               | v  | v  | v  | n  | n  | v          | v      | --  | --   | v    | v            | v   | v   |
| 7                                      | v               | v  | v  | v  | n  | n  | v          | v      | --  | --   | v    | v            | v   | v   |
| Frequency Stability                    |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | --              | -- | -- | v  | -- | -- | v          | v      | --  | --   | v    | --           | v   | --  |
| 5                                      | --              | -- | -- | v  | n  | n  | v          | v      | --  | --   | v    | --           | v   | --  |
| 7                                      | --              | -- | -- | v  | n  | n  | v          | v      | --  | --   | v    | --           | v   | --  |
| Spurious Emission at Antenna Terminals |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | --   | --   | v            | v   | v   |
| 5                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | --   | --   | v            | v   | v   |
| 7                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | --   | --   | v            | v   | v   |
| Band Edge                              |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | v      | v   | --   | v    | v            | --  | v   |
| 5                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | --   | v    | v            | --  | v   |
| 7                                      | v               | v  | v  | v  | n  | n  | v          | v      | v   | --   | v    | v            | --  | v   |
| Field Strength of Spurious Radiation   |                 |    |    |    |    |    |            |        |     |      |      |              |     |     |
| 2                                      | v               | v  | v  | v  | v  | v  | v          | --     | v   | --   | --   | --           | v   | --  |
| 5                                      | v               | v  | v  | v  | n  | n  | v          | --     | v   | --   | --   | --           | v   | --  |
| 7                                      | v               | v  | v  | v  | n  | n  | v          | --     | v   | --   | --   | --           | v   | --  |

Note 1: The mark "v" means that this configuration is chosen for testing.

Note 2: The mark "n" means that this bandwidth is not supported.

| Test Mode              | UL Channel | UL Channel No. | UL Frequency (MHz) |
|------------------------|------------|----------------|--------------------|
| GSM/GPRS/EGPRS<br>850  | LCH        | 128            | 824.2              |
|                        | MCH        | 190            | 836.6              |
|                        | HCH        | 251            | 848.8              |
| GSM/GPRS/EGPRS<br>1900 | LCH        | 512            | 1850.2             |
|                        | MCH        | 661            | 1880.0             |
|                        | HCH        | 810            | 1909.8             |
| WCDMA Band 2           | LCH        | 9262           | 1852.4             |
|                        | MCH        | 9400           | 1880.0             |
|                        | HCH        | 9538           | 1907.6             |
| WCDMA Band 4           | LCH        | 1312           | 1712.4             |

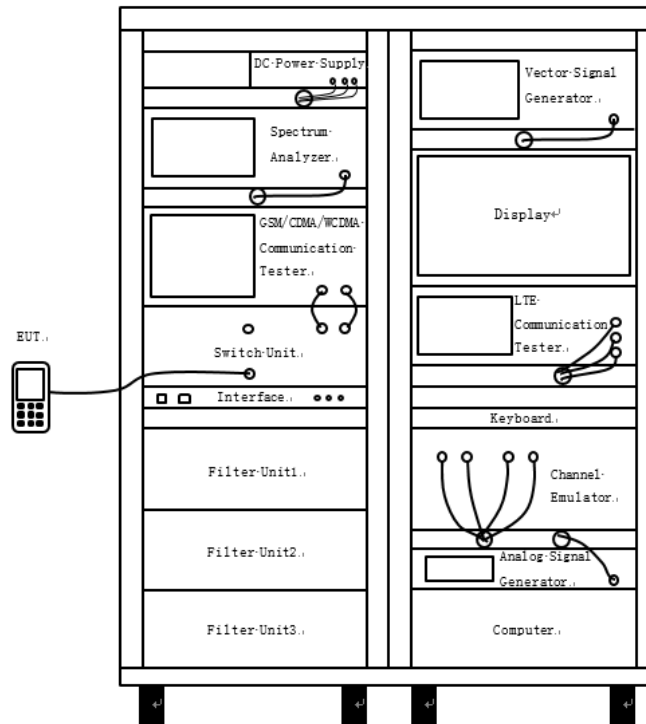
| Test Mode    | UL Channel | UL Channel No. | UL Frequency (MHz) |
|--------------|------------|----------------|--------------------|
| WCDMA Band 5 | MCH        | 1412           | 1732.4             |
|              | HCH        | 1513           | 1752.6             |
|              | LCH        | 4132           | 826.4              |
|              | MCH        | 4182           | 836.4              |
|              | HCH        | 4233           | 846.6              |
|              |            |                |                    |

| Test Mode  | UL Channel | Channel Bandwidth (MHz) | UL Channel No. | UL Frequency (MHz) |
|------------|------------|-------------------------|----------------|--------------------|
| LTE Band 2 | Low Range  | 1.4                     | 18607          | 1850.7             |
|            |            | 3                       | 18615          | 1851.5             |
|            |            | 5                       | 18625          | 1852.5             |
|            |            | 10                      | 18650          | 1855               |
|            |            | 15                      | 18675          | 1857.5             |
|            |            | 20                      | 18700          | 1860               |
|            | Mid Range  | 1.4/3/5/10/15/20        | 18900          | 1880               |
|            | High Range | 1.4                     | 19193          | 1909.3             |
|            |            | 3                       | 19185          | 1908.5             |
|            |            | 5                       | 19175          | 1907.5             |
|            |            | 10                      | 19150          | 1905               |
|            |            | 15                      | 19125          | 1902.5             |
|            |            | 20                      | 19100          | 1900               |
| LTE Band 4 | Low Range  | 1.4                     | 19957          | 1710.7             |
|            |            | 3                       | 19965          | 1711.5             |
|            |            | 5                       | 19975          | 1712.5             |
|            |            | 10                      | 20000          | 1715               |
|            |            | 15                      | 20025          | 1717.5             |
|            |            | 20                      | 20050          | 1720               |
|            | Mid Range  | 1.4/3/5/10/15/20        | 20175          | 1732.5             |
|            | High Range | 1.4                     | 20393          | 1754.3             |
|            |            | 3                       | 20385          | 1753.5             |
|            |            | 5                       | 20375          | 1752.5             |
|            |            | 10                      | 20350          | 1750               |
|            |            | 15                      | 20325          | 1747.5             |
|            |            | 20                      | 20300          | 1745               |
| LTE Band 7 | Low Range  | 5                       | 20775          | 2502.5             |
|            |            | 10                      | 20800          | 2505               |
|            |            | 15                      | 20825          | 2507.5             |
|            |            | 20                      | 20850          | 2510               |
|            | Mid Range  | 5/10/15/20              | 21100          | 2535               |
|            | High Range | 5                       | 21425          | 2567.5             |
|            |            | 10                      | 21400          | 2565               |
|            |            | 15                      | 21375          | 2562.5             |

| Test Mode | UL Channel | Channel Bandwidth<br>(MHz) | UL Channel<br>No. | UL Frequency (MHz) |
|-----------|------------|----------------------------|-------------------|--------------------|
|           |            | 20                         | 21350             | 2560               |

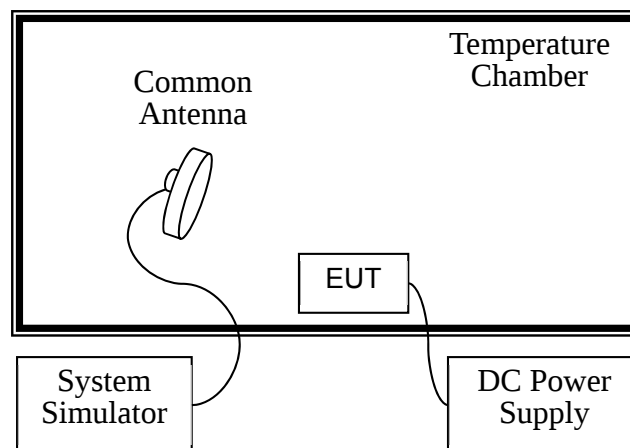
## 4.4 Test Setup

### 4.4.1 For Antenna Port Test



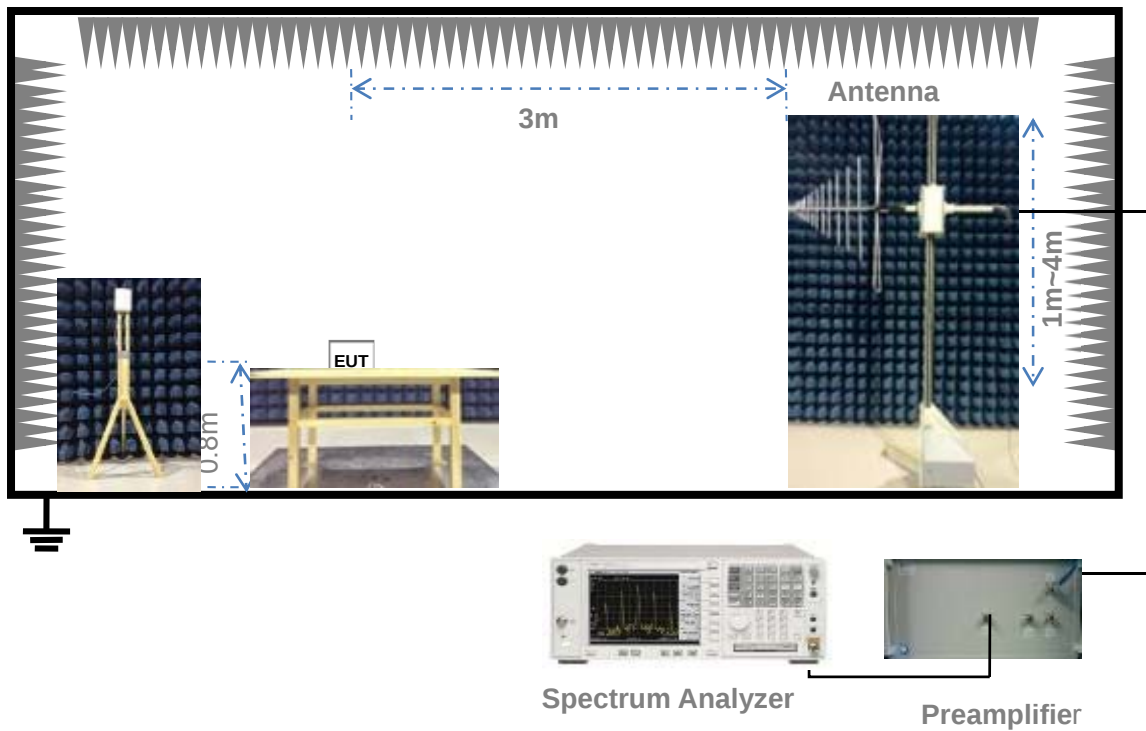
(Diagram 1)

### 4.4.2 For Frequency Stability Test



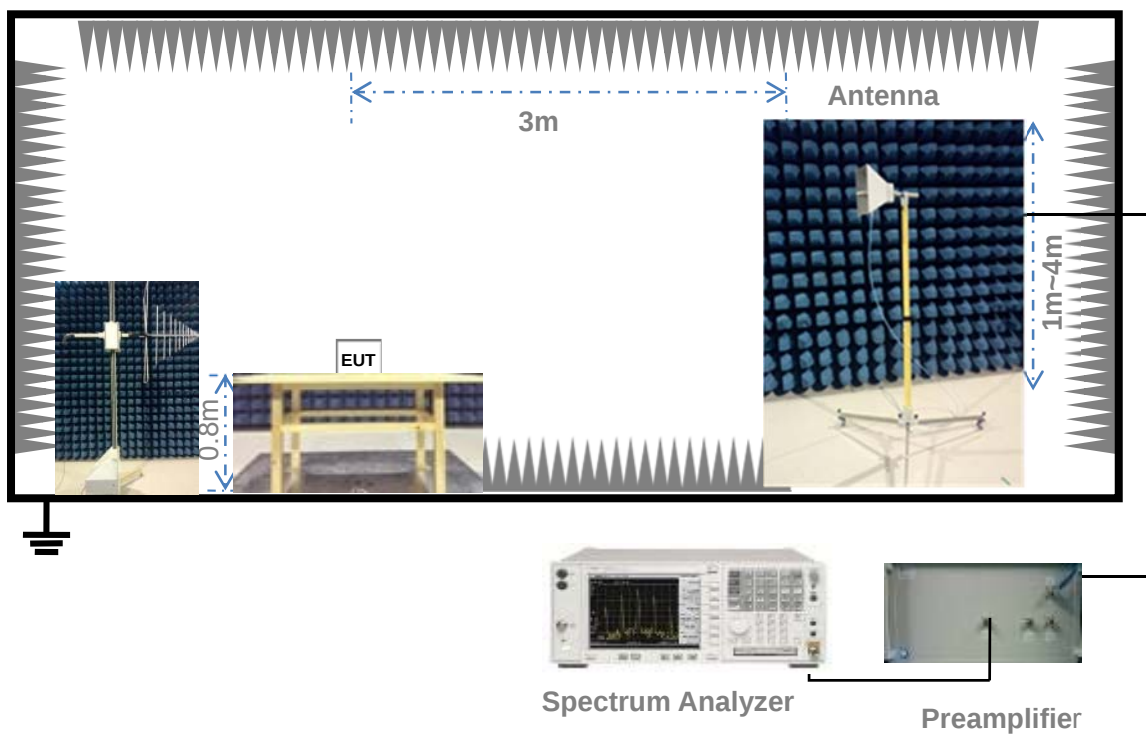
(Diagram 2)

#### 4.4.3 For Radiated Test (30 MHz-1 GHz)



(Diagram 3)

#### 4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

## 5 TEST ITEMS

### 5.1 Transmitter Radiated Power (EIRP/ERP)

#### 5.1.1 Limit

FCC § 2.1046(a) & 22.913 & 24.232

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to FCC section 24.232, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

#### 5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

#### 5.1.3 Test Procedure

##### Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. A system simulator was used to establish communication with the EUT, Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Note: Reference test setup 4.4.1 (Diagram 1)

##### Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP/EIRP} = P_{\text{Meas}} + \text{GT} - \text{LC}$$

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

$\text{dBd (ERP)} = \text{dBi (EIRP)} - 2.15 \text{ dB}$

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

Note: Reference test setup 4.4.3 and 4.4.4 (Diagram 3, 4)

#### 5.1.4 Test Result

Please refer to ANNEX A.1.

## 5.2 Peak to average ratio

### 5.2.1 Limit

FCC § 2.1046 & 24.232(d)

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with 24.232 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

For FCC section 24.232(e), peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

### 5.2.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
  - 1) for continuous transmissions, set to 1 ms,
  - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as  $P_{Pk}$ . Use one of the applicable procedures presented 4.2 to measure the total average power and record as  $P_{Avg}$ . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

Note: Reference test setup 4.4.1 (Diagram 1).

#### 5.2.4 Test Result

Please refer to ANNEX A.2.

## 5.3 Occupied Bandwidth

### 5.3.1 Limit

FCC § 2.1049

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

### 5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

The following procedure shall be used for measuring (99%) power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least  $10\log(\text{OBW} / \text{RBW})$  below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target “-X dB down” requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) For -26 dB OBW, determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

Determine the “-X dB down amplitude” as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below “-X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

Note: Reference test setup 4.4.1 (Diagram 1).

#### 5.3.4 Test Result

Please refer to ANNEX A.3.

## 5.4 Frequency Stability

### 5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235

FCC § 2.1055

The frequency stability shall be measured with variation of ambient temperature as follows:

(1) The temperature is varied from -30°C to +50°C.

(2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.

(3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

FCC § 22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

**Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services**

| Frequency range (MHz) | Base, fixed (ppm) | Mobile > 3 watts (ppm) | Mobile ≤ 3 watts (ppm) |
|-----------------------|-------------------|------------------------|------------------------|
| 25 to 50              | 20.0              | 20.0                   | 50.0                   |
| 50 to 450             | 5.0               | 5.0                    | 50.0                   |
| 450 to 512            | 2.5               | 5.0                    | 5.0                    |
| 821 to 896            | 1.5               | 2.5                    | 2.5                    |
| 928 to 929            | 5.0               | n/a                    | n/a                    |
| 929 to 960            | 1.5               | n/a                    | n/a                    |
| 2110 to 2220          | 10.0              | n/a                    | n/a                    |

FCC § 24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 5.4.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

#### 5.4.3 Test Procedure

1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

Note: Reference test setup 4.4.2 (Diagram 2).

#### 5.4.4 Test Result

Please refer to ANNEX A.4.

## 5.5 Spurious Emission at Antenna Terminals

### 5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$  dB. This is calculated to be -13 dBm.

### 5.5.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.
2. CMW500 was used to establish communication with the EUT, Its parameters were set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
4. Spurious emissions were tested with 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number were at least 401, referring to following formula.

Sweep point number = Span/RBW

VBW=3RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

Note: Reference test setup 4.4.1 (Diagram 1).

#### 5.5.4 Test Result

Please refer to ANNEX A.5.

## 5.6 Band Edge

### 5.6.1 Limit

FCC § 2.1051 & 22.917 & 24.238

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917 & 24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$  dB. This is calculated to be -13 dBm.

### 5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.6.3 Test Procedure

The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

1.The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2. CMW500 was used to establish communication with the EUT, and its parameters were set to force the EUT transmitting at maximum output power.

3. The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient Attenuation.

4. The center of the spectrum analyzer was set to block edge frequency.

5. Band edge were tested with 1% cBW RBW, and sweep point number refered to following formula.

$$\text{Sweep point number} = 2*\text{Span}/\text{RBW}$$

$$\text{VBW}=3\text{RBW}$$

6. Record the frequencies and levels of spurious emissions.

Note: Reference test setup 4.4.1 (Diagram 1).

#### 5.6.4 Test Result

Please refer to ANNEX A.6.

## 5.7 Field Strength of Spurious Radiation

### 5.7.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$  dB. This is calculated to be -13 dBm.

### 5.7.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected to a signal generator.
11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Note: Reference test setup 4.4.3 and 4.4.4 (Diagram 3, 4).

#### 5.7.4 Test Result

Please refer to ANNEX A.7.

## ANNEX A TEST RESULTS

### A.1 Transmitter Radiated Power (EIRP/ERP)

#### GSM Mode Test Data

| Test Band | Test Channel | Conducted Output Peak Power (dB) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|-----------|--------------|----------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| GSM 850   | LCH          | 32.78                            | -3.17              | -5.32              | 27.46     | 0.56    | 7.00      | Pass    |
|           | MCH          | 32.76                            | -3.17              | -5.32              | 27.44     | 0.55    | 7.00      | Pass    |
|           | HCH          | 32.76                            | -3.17              | -5.32              | 27.44     | 0.55    | 7.00      | Pass    |
| GPRS 850  | LCH          | 32.81                            | -3.17              | -5.32              | 27.49     | 0.56    | 7.00      | Pass    |
|           | MCH          | 32.79                            | -3.17              | -5.32              | 27.47     | 0.56    | 7.00      | Pass    |
|           | HCH          | 32.77                            | -3.17              | -5.32              | 27.45     | 0.56    | 7.00      | Pass    |
| EGPRS 850 | LCH          | 30.31                            | -3.17              | -5.32              | 24.99     | 0.32    | 7.00      | Pass    |
|           | MCH          | 30.25                            | -3.17              | -5.32              | 24.93     | 0.31    | 7.00      | Pass    |
|           | HCH          | 30.42                            | -3.17              | -5.32              | 25.10     | 0.32    | 7.00      | Pass    |

| Test Band  | Test Channel | Conducted Output Peak Power (dB) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------|--------------|----------------------------------|--------------------|------------|----------|-----------|---------|
| GSM 1900   | LCH          | 30.29                            | -0.3               | 29.99      | 1.00     | 2.00      | Pass    |
|            | MCH          | 30.31                            | -0.3               | 30.01      | 1.00     | 2.00      | Pass    |
|            | HCH          | 30.34                            | -0.3               | 30.04      | 1.01     | 2.00      | Pass    |
| GPRS 1900  | LCH          | 30.28                            | -0.3               | 29.98      | 1.00     | 2.00      | Pass    |
|            | MCH          | 30.32                            | -0.3               | 30.02      | 1.00     | 2.00      | Pass    |
|            | HCH          | 30.36                            | -0.3               | 30.06      | 1.01     | 2.00      | Pass    |
| EGPRS 1900 | LCH          | 29.95                            | -0.3               | 29.65      | 0.92     | 2.00      | Pass    |
|            | MCH          | 29.83                            | -0.3               | 29.53      | 0.90     | 2.00      | Pass    |
|            | HCH          | 29.68                            | -0.3               | 29.38      | 0.87     | 2.00      | Pass    |

Note 1: For the GPRS and EGPRS mode, all the slots were tested and just the worst data were recorded in this table.

Note 2:  $ERP/EIRP = P_{Meas} + GT - LC$

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as  $P_{Meas}$ , typically dBW or dBm);

$P_{Meas}$  = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

$ERP = EIRP - 2.15$ ; where ERP and EIRP are expressed in consistent units.

### GPRS Conducted Output Power

| Band         | Channel | Conducted Output Peak Power |               |                 |               |                 |               |                 |               |
|--------------|---------|-----------------------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
|              |         | Slot 1<br>(dBm)             | Slot 1<br>(W) | Slot 2<br>(dBm) | Slot 2<br>(W) | Slot 3<br>(dBm) | Slot 3<br>(W) | Slot 4<br>(dBm) | Slot 4<br>(W) |
| GPRS<br>850  | LCH     | 32.81                       | 1.91          | 31.65           | 1.46          | 30.30           | 1.07          | 29.34           | 0.86          |
|              | MCH     | 32.79                       | 1.90          | 31.52           | 1.42          | 30.11           | 1.03          | 29.07           | 0.81          |
|              | HCH     | 32.77                       | 1.89          | 31.43           | 1.39          | 28.86           | 0.77          | 28.87           | 0.77          |
| GPRS<br>1900 | LCH     | 30.28                       | 1.07          | 28.60           | 0.72          | 27.19           | 0.52          | 26.16           | 0.41          |
|              | MCH     | 30.32                       | 1.08          | 28.81           | 0.76          | 27.47           | 0.56          | 26.48           | 0.44          |
|              | HCH     | 30.36                       | 1.09          | 29.04           | 0.80          | 27.82           | 0.60          | 26.87           | 0.49          |

### EGPRS Conducted Output Power

| Band          | Channel | Conducted Output Peak Power |               |                 |               |                 |               |                 |               |
|---------------|---------|-----------------------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
|               |         | Slot 1<br>(dBm)             | Slot 1<br>(W) | Slot 2<br>(dBm) | Slot 2<br>(W) | Slot 3<br>(dBm) | Slot 3<br>(W) | Slot 4<br>(dBm) | Slot 4<br>(W) |
| EGPRS<br>850  | LCH     | 30.31                       | 1.07          | 28.57           | 0.72          | 27.03           | 0.50          | 26.16           | 0.41          |
|               | MCH     | 30.25                       | 1.06          | 28.54           | 0.71          | 25.98           | 0.40          | 26.03           | 0.40          |
|               | HCH     | 30.42                       | 1.10          | 28.52           | 0.71          | 27.09           | 0.51          | 26.20           | 0.42          |
| EGPRS<br>1900 | LCH     | 29.95                       | 0.99          | 28.53           | 0.71          | 27.23           | 0.53          | 26.11           | 0.41          |
|               | MCH     | 29.83                       | 0.96          | 28.40           | 0.69          | 27.14           | 0.52          | 26.10           | 0.41          |
|               | HCH     | 29.68                       | 0.93          | 28.31           | 0.68          | 27.06           | 0.51          | 26.19           | 0.42          |

## WCDMA Mode Test Data:

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| WCDMA Band 2 | LCH          | 22.89                           | -0.3               | 22.59      | 0.18     | 2.00      | Pass    |
|              | MCH          | 22.49                           | -0.3               | 22.19      | 0.17     | 2.00      | Pass    |
|              | HCH          | 22.95                           | -0.3               | 22.65      | 0.18     | 2.00      | Pass    |
| HSDPA Band 2 | LCH          | 21.93                           | -0.3               | 21.63      | 0.15     | 2.00      | Pass    |
|              | MCH          | 21.61                           | -0.3               | 21.31      | 0.14     | 2.00      | Pass    |
|              | HCH          | 22.05                           | -0.3               | 21.75      | 0.15     | 2.00      | Pass    |
| HSUPA Band 2 | LCH          | 20.85                           | -0.3               | 20.55      | 0.11     | 2.00      | Pass    |
|              | MCH          | 20.59                           | -0.3               | 20.29      | 0.11     | 2.00      | Pass    |
|              | HCH          | 21.07                           | -0.3               | 20.77      | 0.12     | 2.00      | Pass    |

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| WCDMA Band 4 | LCH          | 22.80                           | 0.6                | 23.40      | 0.22     | 2.00      | Pass    |
|              | MCH          | 23.37                           | 0.6                | 23.97      | 0.25     | 2.00      | Pass    |
|              | HCH          | 22.84                           | 0.6                | 23.44      | 0.22     | 2.00      | Pass    |
| HSDPA Band 4 | LCH          | 22.33                           | 0.6                | 22.93      | 0.20     | 2.00      | Pass    |
|              | MCH          | 22.49                           | 0.6                | 23.09      | 0.20     | 2.00      | Pass    |
|              | HCH          | 21.93                           | 0.6                | 22.53      | 0.18     | 2.00      | Pass    |
| HSUPA Band 4 | LCH          | 21.38                           | 0.6                | 21.98      | 0.16     | 2.00      | Pass    |
|              | MCH          | 21.49                           | 0.6                | 22.09      | 0.16     | 2.00      | Pass    |
|              | HCH          | 20.90                           | 0.6                | 21.50      | 0.14     | 2.00      | Pass    |

| Test Band    | Test Channel | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | Antenna Gain (dBd) | ERP (dBm) | ERP (W) | Limit (W) | Verdict |
|--------------|--------------|---------------------------------|--------------------|--------------------|-----------|---------|-----------|---------|
| WCDMA Band 5 | LCH          | 22.27                           | -3.17              | -5.32              | 16.95     | 0.05    | 7.00      | Pass    |
|              | MCH          | 22.30                           | -3.17              | -5.32              | 16.98     | 0.05    | 7.00      | Pass    |
|              | HCH          | 22.16                           | -3.17              | -5.32              | 16.84     | 0.05    | 7.00      | Pass    |
| HSDPA Band 5 | LCH          | 21.29                           | -3.17              | -5.32              | 15.97     | 0.04    | 7.00      | Pass    |
|              | MCH          | 21.35                           | -3.17              | -5.32              | 16.03     | 0.04    | 7.00      | Pass    |
|              | HCH          | 21.23                           | -3.17              | -5.32              | 15.91     | 0.04    | 7.00      | Pass    |
| HSUPA Band 5 | LCH          | 20.32                           | -3.17              | -5.32              | 15.00     | 0.03    | 7.00      | Pass    |
|              | MCH          | 20.34                           | -3.17              | -5.32              | 15.02     | 0.03    | 7.00      | Pass    |
|              | HCH          | 20.20                           | -3.17              | -5.32              | 14.88     | 0.03    | 7.00      | Pass    |

Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this table.

Note 2:  $ERP/EIRP = P_{Meas} + GT - LC$

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as  $P_{Meas}$ , typically dBW or dBm);

$P_{Meas}$  = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

$ERP = EIRP - 2.15$ ; where ERP and EIRP are expressed in consistent units.

#### HSDPA Conducted Output Power

| Band            | Channel | Conducted Output Average Power |      |          |      |          |      |          |      |
|-----------------|---------|--------------------------------|------|----------|------|----------|------|----------|------|
|                 |         | Subtest1                       |      | Subtest2 |      | Subtest3 |      | Subtest4 |      |
|                 |         | (dBm)                          | (W)  | (dBm)    | (W)  | (dBm)    | (W)  | (dBm)    | (W)  |
| HSDPA<br>Band 2 | LCH     | 21.93                          | 0.16 | 21.8     | 0.15 | 21.41    | 0.14 | 21.38    | 0.14 |
|                 | MCH     | 21.57                          | 0.14 | 21.61    | 0.14 | 21.16    | 0.13 | 21.12    | 0.13 |
|                 | HCH     | 22.05                          | 0.16 | 22.04    | 0.16 | 21.6     | 0.14 | 21.57    | 0.14 |
| HSDPA<br>Band 4 | LCH     | 22.28                          | 0.17 | 22.33    | 0.17 | 21.85    | 0.15 | 21.80    | 0.15 |
|                 | MCH     | 22.49                          | 0.18 | 22.40    | 0.17 | 21.96    | 0.16 | 21.93    | 0.16 |
|                 | HCH     | 21.93                          | 0.16 | 21.80    | 0.15 | 21.35    | 0.14 | 21.33    | 0.14 |
| HSDPA<br>Band 5 | LCH     | 21.23                          | 0.13 | 21.29    | 0.13 | 20.80    | 0.12 | 20.75    | 0.12 |
|                 | MCH     | 21.35                          | 0.14 | 21.35    | 0.14 | 20.89    | 0.12 | 20.86    | 0.12 |
|                 | HCH     | 21.23                          | 0.13 | 21.21    | 0.13 | 20.75    | 0.12 | 20.73    | 0.12 |

#### HSUPA Conducted Output Power

| Band            | Channel | Conducted Output Average Power |      |          |      |          |      |          |      |          |      |
|-----------------|---------|--------------------------------|------|----------|------|----------|------|----------|------|----------|------|
|                 |         | Subtest1                       |      | Subtest2 |      | Subtest3 |      | Subtest4 |      | Subtest5 |      |
|                 |         | (dBm)                          | (W)  | (dBm)    | (W)  | (dBm)    | (W)  | (dBm)    | (W)  | (dBm)    | (W)  |
| HSUPA<br>Band 2 | LCH     | 19.33                          | 0.09 | 19.34    | 0.09 | 20.34    | 0.11 | 18.9     | 0.08 | 20.85    | 0.12 |
|                 | MCH     | 19.64                          | 0.09 | 19.63    | 0.09 | 20.59    | 0.11 | 19.08    | 0.08 | 20.54    | 0.11 |
|                 | HCH     | 20.07                          | 0.10 | 20.07    | 0.10 | 21.07    | 0.13 | 19.59    | 0.09 | 21.00    | 0.13 |
| HSUPA<br>Band 4 | LCH     | 20.32                          | 0.11 | 20.33    | 0.11 | 21.38    | 0.14 | 19.84    | 0.10 | 21.30    | 0.13 |
|                 | MCH     | 20.46                          | 0.11 | 20.41    | 0.11 | 21.49    | 0.14 | 19.91    | 0.10 | 21.37    | 0.14 |
|                 | HCH     | 19.88                          | 0.10 | 19.86    | 0.10 | 20.85    | 0.12 | 19.36    | 0.09 | 20.9     | 0.12 |
| HSUPA<br>Band 5 | LCH     | 19.33                          | 0.09 | 19.25    | 0.08 | 20.32    | 0.11 | 18.82    | 0.08 | 20.26    | 0.11 |
|                 | MCH     | 19.39                          | 0.09 | 19.30    | 0.09 | 20.34    | 0.11 | 18.89    | 0.08 | 20.30    | 0.11 |
|                 | HCH     | 19.17                          | 0.08 | 19.22    | 0.08 | 20.19    | 0.10 | 18.74    | 0.07 | 20.20    | 0.10 |

## LTE Mode Test Data:

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND2 |              |            |                       |                                 |                    |            |          |           |         |
| 1.4 MHz   | LCH          | QPSK       | RB1#0                 | 23.02                           | -0.3               | 22.72      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#3                 | 23.01                           | -0.3               | 22.71      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#5                 | 23.06                           | -0.3               | 22.76      | 0.19     | 2.00      | Pass    |
|           |              |            | RB3#0                 | 23.01                           | -0.3               | 22.71      | 0.19     | 2.00      | Pass    |
|           |              |            | RB3#2                 | 23.05                           | -0.3               | 22.75      | 0.19     | 2.00      | Pass    |
|           |              |            | RB3#3                 | 23.08                           | -0.3               | 22.78      | 0.19     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 22.02                           | -0.3               | 21.72      | 0.15     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.04                           | -0.3               | 21.74      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#3                 | 21.99                           | -0.3               | 21.69      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#5                 | 22.09                           | -0.3               | 21.79      | 0.15     | 2.00      | Pass    |
|           |              |            | RB3#0                 | 22.13                           | -0.3               | 21.83      | 0.15     | 2.00      | Pass    |
|           |              |            | RB3#2                 | 22.06                           | -0.3               | 21.76      | 0.15     | 2.00      | Pass    |
|           |              |            | RB3#3                 | 22.04                           | -0.3               | 21.74      | 0.15     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 21.06                           | -0.3               | 20.76      | 0.12     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.54                           | -0.3               | 22.24      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#3                 | 22.54                           | -0.3               | 22.24      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#5                 | 22.53                           | -0.3               | 22.23      | 0.17     | 2.00      | Pass    |
|           |              |            | RB3#0                 | 22.55                           | -0.3               | 22.25      | 0.17     | 2.00      | Pass    |
|           |              |            | RB3#2                 | 22.55                           | -0.3               | 22.25      | 0.17     | 2.00      | Pass    |
|           |              |            | RB3#3                 | 22.55                           | -0.3               | 22.25      | 0.17     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 21.53                           | -0.3               | 21.23      | 0.13     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.83                           | -0.3               | 21.53      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#3                 | 21.74                           | -0.3               | 21.44      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#5                 | 21.82                           | -0.3               | 21.52      | 0.14     | 2.00      | Pass    |
|           |              |            | RB3#0                 | 21.70                           | -0.3               | 21.40      | 0.14     | 2.00      | Pass    |
|           |              |            | RB3#2                 | 21.68                           | -0.3               | 21.38      | 0.14     | 2.00      | Pass    |
|           |              |            | RB3#3                 | 21.73                           | -0.3               | 21.43      | 0.14     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 20.38                           | -0.3               | 20.08      | 0.10     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.81                           | -0.3               | 22.51      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#3                 | 22.86                           | -0.3               | 22.56      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#5                 | 22.89                           | -0.3               | 22.59      | 0.18     | 2.00      | Pass    |
|           |              |            | RB3#0                 | 22.81                           | -0.3               | 22.51      | 0.18     | 2.00      | Pass    |
|           |              |            | RB3#2                 | 22.82                           | -0.3               | 22.52      | 0.18     | 2.00      | Pass    |
|           |              |            | RB3#3                 | 22.75                           | -0.3               | 22.45      | 0.18     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 21.92                           | -0.3               | 21.62      | 0.15     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.74                           | -0.3               | 21.44      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#3                 | 21.67                           | -0.3               | 21.37      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#5                 | 21.78                           | -0.3               | 21.48      | 0.14     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND2 |              |            |                       |                                 |                    |            |          |           |         |
| 3 MHz     |              |            | RB3#0                 | 21.92                           | -0.3               | 21.62      | 0.15     | 2.00      | Pass    |
|           |              |            | RB3#2                 | 21.95                           | -0.3               | 21.65      | 0.15     | 2.00      | Pass    |
|           |              |            | RB3#3                 | 21.96                           | -0.3               | 21.66      | 0.15     | 2.00      | Pass    |
|           |              |            | RB6#0                 | 20.88                           | -0.3               | 20.58      | 0.11     | 2.00      | Pass    |
|           | LCH          | QPSK       | RB1#0                 | 23.10                           | -0.3               | 22.80      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#7                 | 23.04                           | -0.3               | 22.74      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#14                | 23.09                           | -0.3               | 22.79      | 0.19     | 2.00      | Pass    |
|           |              |            | RB8#0                 | 22.10                           | -0.3               | 21.80      | 0.15     | 2.00      | Pass    |
|           |              |            | RB8#4                 | 22.13                           | -0.3               | 21.83      | 0.15     | 2.00      | Pass    |
|           |              |            | RB8#7                 | 22.16                           | -0.3               | 21.86      | 0.15     | 2.00      | Pass    |
|           |              |            | RB15#0                | 22.12                           | -0.3               | 21.82      | 0.15     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.81                           | -0.3               | 21.51      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#7                 | 21.76                           | -0.3               | 21.46      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#14                | 21.82                           | -0.3               | 21.52      | 0.14     | 2.00      | Pass    |
|           |              |            | RB8#0                 | 21.17                           | -0.3               | 20.87      | 0.12     | 2.00      | Pass    |
|           |              |            | RB8#4                 | 21.19                           | -0.3               | 20.89      | 0.12     | 2.00      | Pass    |
|           |              |            | RB8#7                 | 21.21                           | -0.3               | 20.91      | 0.12     | 2.00      | Pass    |
|           |              |            | RB15#0                | 21.12                           | -0.3               | 20.82      | 0.12     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.64                           | -0.3               | 22.34      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#7                 | 22.57                           | -0.3               | 22.27      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#14                | 22.62                           | -0.3               | 22.32      | 0.17     | 2.00      | Pass    |
|           |              |            | RB8#0                 | 21.64                           | -0.3               | 21.34      | 0.14     | 2.00      | Pass    |
|           |              |            | RB8#4                 | 21.68                           | -0.3               | 21.38      | 0.14     | 2.00      | Pass    |
|           |              |            | RB8#7                 | 21.68                           | -0.3               | 21.38      | 0.14     | 2.00      | Pass    |
|           |              |            | RB15#0                | 21.57                           | -0.3               | 21.27      | 0.13     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.85                           | -0.3               | 21.55      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#7                 | 21.76                           | -0.3               | 21.46      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#14                | 21.79                           | -0.3               | 21.49      | 0.14     | 2.00      | Pass    |
|           |              |            | RB8#0                 | 20.65                           | -0.3               | 20.35      | 0.11     | 2.00      | Pass    |
|           |              |            | RB8#4                 | 20.67                           | -0.3               | 20.37      | 0.11     | 2.00      | Pass    |
|           |              |            | RB8#7                 | 20.66                           | -0.3               | 20.36      | 0.11     | 2.00      | Pass    |
|           |              |            | RB15#0                | 20.59                           | -0.3               | 20.29      | 0.11     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.95                           | -0.3               | 22.65      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#7                 | 22.91                           | -0.3               | 22.61      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#14                | 23.03                           | -0.3               | 22.73      | 0.19     | 2.00      | Pass    |
|           |              |            | RB8#0                 | 22.01                           | -0.3               | 21.71      | 0.15     | 2.00      | Pass    |
|           |              |            | RB8#4                 | 22.07                           | -0.3               | 21.77      | 0.15     | 2.00      | Pass    |
|           |              |            | RB8#7                 | 22.08                           | -0.3               | 21.78      | 0.15     | 2.00      | Pass    |
|           |              |            | RB15#0                | 21.96                           | -0.3               | 21.66      | 0.15     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND2 |              |            |                       |                                 |                    |            |          |           |         |
|           |              | 16-QAM     | RB1#0                 | 21.82                           | -0.3               | 21.52      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#7                 | 21.71                           | -0.3               | 21.41      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#14                | 21.77                           | -0.3               | 21.47      | 0.14     | 2.00      | Pass    |
|           |              |            | RB8#0                 | 20.96                           | -0.3               | 20.66      | 0.12     | 2.00      | Pass    |
|           |              |            | RB8#4                 | 20.99                           | -0.3               | 20.69      | 0.12     | 2.00      | Pass    |
|           |              |            | RB8#7                 | 21.00                           | -0.3               | 20.70      | 0.12     | 2.00      | Pass    |
|           |              |            | RB15#0                | 20.87                           | -0.3               | 20.57      | 0.11     | 2.00      | Pass    |
| 5 MHz     | LCH          | QPSK       | RB1#0                 | 22.94                           | -0.3               | 22.64      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#13                | 22.93                           | -0.3               | 22.63      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#24                | 22.93                           | -0.3               | 22.63      | 0.18     | 2.00      | Pass    |
|           |              |            | RB12#0                | 21.99                           | -0.3               | 21.69      | 0.15     | 2.00      | Pass    |
|           |              |            | RB12#6                | 22.02                           | -0.3               | 21.72      | 0.15     | 2.00      | Pass    |
|           |              |            | RB12#13               | 21.99                           | -0.3               | 21.69      | 0.15     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.97                           | -0.3               | 21.67      | 0.15     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.03                           | -0.3               | 21.73      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#13                | 22.00                           | -0.3               | 21.70      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#24                | 22.03                           | -0.3               | 21.73      | 0.15     | 2.00      | Pass    |
|           |              |            | RB12#0                | 21.03                           | -0.3               | 20.73      | 0.12     | 2.00      | Pass    |
|           |              |            | RB12#6                | 21.06                           | -0.3               | 20.76      | 0.12     | 2.00      | Pass    |
|           |              |            | RB12#13               | 21.04                           | -0.3               | 20.74      | 0.12     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.00                           | -0.3               | 20.70      | 0.12     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.57                           | -0.3               | 22.27      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#13                | 22.53                           | -0.3               | 22.23      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#24                | 22.53                           | -0.3               | 22.23      | 0.17     | 2.00      | Pass    |
|           |              |            | RB12#0                | 21.58                           | -0.3               | 21.28      | 0.13     | 2.00      | Pass    |
|           |              |            | RB12#6                | 21.60                           | -0.3               | 21.30      | 0.13     | 2.00      | Pass    |
|           |              |            | RB12#13               | 21.53                           | -0.3               | 21.23      | 0.13     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.51                           | -0.3               | 21.21      | 0.13     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.95                           | -0.3               | 21.65      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#13                | 21.91                           | -0.3               | 21.61      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#24                | 21.89                           | -0.3               | 21.59      | 0.14     | 2.00      | Pass    |
|           |              |            | RB12#0                | 20.66                           | -0.3               | 20.36      | 0.11     | 2.00      | Pass    |
|           |              |            | RB12#6                | 20.67                           | -0.3               | 20.37      | 0.11     | 2.00      | Pass    |
|           |              |            | RB12#13               | 20.62                           | -0.3               | 20.32      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.54                           | -0.3               | 20.24      | 0.11     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.97                           | -0.3               | 22.67      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#13                | 22.99                           | -0.3               | 22.69      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#24                | 22.92                           | -0.3               | 22.62      | 0.18     | 2.00      | Pass    |
|           |              |            | RB12#0                | 21.96                           | -0.3               | 21.66      | 0.15     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND2 |              |            |                       |                                 |                    |            |          |           |         |
|           |              |            | RB12#6                | 21.99                           | -0.3               | 21.69      | 0.15     | 2.00      | Pass    |
|           |              |            | RB12#13               | 21.94                           | -0.3               | 21.64      | 0.15     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.90                           | -0.3               | 21.60      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.88                           | -0.3               | 21.58      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#13                | 21.85                           | -0.3               | 21.55      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#24                | 21.87                           | -0.3               | 21.57      | 0.14     | 2.00      | Pass    |
|           |              |            | RB12#0                | 20.95                           | -0.3               | 20.65      | 0.12     | 2.00      | Pass    |
|           |              |            | RB12#6                | 20.98                           | -0.3               | 20.68      | 0.12     | 2.00      | Pass    |
|           |              |            | RB12#13               | 20.92                           | -0.3               | 20.62      | 0.12     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.83                           | -0.3               | 20.53      | 0.11     | 2.00      | Pass    |
| 10 MHz    | LCH          | QPSK       | RB1#0                 | 23.02                           | -0.3               | 22.72      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#25                | 22.96                           | -0.3               | 22.66      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#49                | 22.96                           | -0.3               | 22.66      | 0.18     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.81                           | -0.3               | 21.51      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#13               | 21.81                           | -0.3               | 21.51      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#25               | 21.82                           | -0.3               | 21.52      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.83                           | -0.3               | 21.53      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.71                           | -0.3               | 21.41      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#25                | 21.70                           | -0.3               | 21.40      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#49                | 21.72                           | -0.3               | 21.42      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.85                           | -0.3               | 20.55      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#13               | 20.85                           | -0.3               | 20.55      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#25               | 20.85                           | -0.3               | 20.55      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#0                | 20.84                           | -0.3               | 20.54      | 0.11     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.78                           | -0.3               | 22.48      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#25                | 22.71                           | -0.3               | 22.41      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#49                | 22.68                           | -0.3               | 22.38      | 0.17     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.60                           | -0.3               | 21.30      | 0.13     | 2.00      | Pass    |
|           |              |            | RB25#13               | 21.55                           | -0.3               | 21.25      | 0.13     | 2.00      | Pass    |
|           |              |            | RB25#25               | 21.51                           | -0.3               | 21.21      | 0.13     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.55                           | -0.3               | 21.25      | 0.13     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.97                           | -0.3               | 21.67      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#25                | 21.88                           | -0.3               | 21.58      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#49                | 21.83                           | -0.3               | 21.53      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.62                           | -0.3               | 20.32      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#13               | 20.56                           | -0.3               | 20.26      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#25               | 20.50                           | -0.3               | 20.20      | 0.10     | 2.00      | Pass    |
|           |              |            | RB50#0                | 20.53                           | -0.3               | 20.23      | 0.11     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 23.07                           | -0.3               | 22.77      | 0.19     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND2 |              |            |                       |                                 |                    |            |          |           |         |
|           |              |            | RB1#25                | 23.06                           | -0.3               | 22.76      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#49                | 22.86                           | -0.3               | 22.56      | 0.18     | 2.00      | Pass    |
|           |              |            | RB25#0                | 22.00                           | -0.3               | 21.70      | 0.15     | 2.00      | Pass    |
|           |              |            | RB25#13               | 21.97                           | -0.3               | 21.67      | 0.15     | 2.00      | Pass    |
|           |              |            | RB25#25               | 21.95                           | -0.3               | 21.65      | 0.15     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.97                           | -0.3               | 21.67      | 0.15     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.96                           | -0.3               | 21.66      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#25                | 21.92                           | -0.3               | 21.62      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#49                | 21.88                           | -0.3               | 21.58      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.08                           | -0.3               | 20.78      | 0.12     | 2.00      | Pass    |
|           |              |            | RB25#13               | 21.05                           | -0.3               | 20.75      | 0.12     | 2.00      | Pass    |
|           |              |            | RB25#25               | 21.01                           | -0.3               | 20.71      | 0.12     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.00                           | -0.3               | 20.70      | 0.12     | 2.00      | Pass    |
| 15 MHz    | LCH          | QPSK       | RB1#0                 | 22.93                           | -0.3               | 22.63      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#38                | 22.77                           | -0.3               | 22.47      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#74                | 22.81                           | -0.3               | 22.51      | 0.18     | 2.00      | Pass    |
|           |              |            | RB36#0                | 21.86                           | -0.3               | 21.56      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#19               | 21.82                           | -0.3               | 21.52      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#39               | 21.81                           | -0.3               | 21.51      | 0.14     | 2.00      | Pass    |
|           |              |            | RB75#0                | 21.85                           | -0.3               | 21.55      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.68                           | -0.3               | 21.38      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#38                | 21.58                           | -0.3               | 21.28      | 0.13     | 2.00      | Pass    |
|           |              |            | RB1#74                | 21.61                           | -0.3               | 21.31      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#0                | 20.79                           | -0.3               | 20.49      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#19               | 20.74                           | -0.3               | 20.44      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#39               | 20.76                           | -0.3               | 20.46      | 0.11     | 2.00      | Pass    |
|           |              |            | RB75#0                | 20.80                           | -0.3               | 20.50      | 0.11     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.89                           | -0.3               | 22.59      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#38                | 22.69                           | -0.3               | 22.39      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#74                | 22.68                           | -0.3               | 22.38      | 0.17     | 2.00      | Pass    |
|           |              |            | RB36#0                | 21.79                           | -0.3               | 21.49      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#19               | 21.71                           | -0.3               | 21.41      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#39               | 21.65                           | -0.3               | 21.35      | 0.14     | 2.00      | Pass    |
|           |              |            | RB75#0                | 21.72                           | -0.3               | 21.42      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.07                           | -0.3               | 21.77      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#38                | 21.85                           | -0.3               | 21.55      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#74                | 21.82                           | -0.3               | 21.52      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#0                | 20.74                           | -0.3               | 20.44      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#19               | 20.65                           | -0.3               | 20.35      | 0.11     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND2 |              |            |                       |                                 |                    |            |          |           |         |
|           |              |            | RB36#39               | 20.59                           | -0.3               | 20.29      | 0.11     | 2.00      | Pass    |
|           |              |            | RB75#0                | 20.63                           | -0.3               | 20.33      | 0.11     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 23.08                           | -0.3               | 22.78      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#38                | 22.95                           | -0.3               | 22.65      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#74                | 22.76                           | -0.3               | 22.46      | 0.18     | 2.00      | Pass    |
|           |              |            | RB36#0                | 22.00                           | -0.3               | 21.70      | 0.15     | 2.00      | Pass    |
|           |              |            | RB36#19               | 21.95                           | -0.3               | 21.65      | 0.15     | 2.00      | Pass    |
|           |              |            | RB36#39               | 21.95                           | -0.3               | 21.65      | 0.15     | 2.00      | Pass    |
|           |              |            | RB75#0                | 21.99                           | -0.3               | 21.69      | 0.15     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.15                           | -0.3               | 21.85      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#38                | 22.06                           | -0.3               | 21.76      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#74                | 22.02                           | -0.3               | 21.72      | 0.15     | 2.00      | Pass    |
|           |              |            | RB36#0                | 20.89                           | -0.3               | 20.59      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#19               | 20.83                           | -0.3               | 20.53      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#39               | 20.82                           | -0.3               | 20.52      | 0.11     | 2.00      | Pass    |
|           |              |            | RB75#0                | 20.88                           | -0.3               | 20.58      | 0.11     | 2.00      | Pass    |
| 20 MHz    | LCH          | QPSK       | RB1#0                 | 22.97                           | -0.3               | 22.67      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#50                | 22.74                           | -0.3               | 22.44      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#99                | 22.87                           | -0.3               | 22.57      | 0.18     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.81                           | -0.3               | 21.51      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#25               | 21.77                           | -0.3               | 21.47      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#50               | 21.80                           | -0.3               | 21.50      | 0.14     | 2.00      | Pass    |
|           |              |            | RB100#0               | 21.82                           | -0.3               | 21.52      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.38                           | -0.3               | 22.08      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#50                | 22.22                           | -0.3               | 21.92      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#99                | 22.32                           | -0.3               | 22.02      | 0.16     | 2.00      | Pass    |
|           |              |            | RB50#0                | 20.84                           | -0.3               | 20.54      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#25               | 20.79                           | -0.3               | 20.49      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#50               | 20.84                           | -0.3               | 20.54      | 0.11     | 2.00      | Pass    |
|           |              |            | RB100#0               | 20.87                           | -0.3               | 20.57      | 0.11     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.94                           | -0.3               | 22.64      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#50                | 22.68                           | -0.3               | 22.38      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#99                | 22.77                           | -0.3               | 22.47      | 0.18     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.73                           | -0.3               | 21.43      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#25               | 21.59                           | -0.3               | 21.29      | 0.13     | 2.00      | Pass    |
|           |              |            | RB50#50               | 21.52                           | -0.3               | 21.22      | 0.13     | 2.00      | Pass    |
|           |              |            | RB100#0               | 21.64                           | -0.3               | 21.34      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.20                           | -0.3               | 21.90      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#50                | 21.90                           | -0.3               | 21.60      | 0.14     | 2.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND2</b> |              |            |                       |                                 |                    |            |          |           |         |
|                  |              |            | RB1#99                | 21.93                           | -0.3               | 21.63      | 0.15     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 20.71                           | -0.3               | 20.41      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#25               | 20.57                           | -0.3               | 20.27      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#50               | 20.49                           | -0.3               | 20.19      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 20.63                           | -0.3               | 20.33      | 0.11     | 2.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 22.90                           | -0.3               | 22.60      | 0.18     | 2.00      | Pass    |
|                  |              |            | RB1#50                | 22.71                           | -0.3               | 22.41      | 0.17     | 2.00      | Pass    |
|                  |              |            | RB1#99                | 22.60                           | -0.3               | 22.30      | 0.17     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 21.76                           | -0.3               | 21.46      | 0.14     | 2.00      | Pass    |
|                  |              |            | RB50#25               | 21.62                           | -0.3               | 21.32      | 0.14     | 2.00      | Pass    |
|                  |              |            | RB50#50               | 21.61                           | -0.3               | 21.31      | 0.14     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 21.72                           | -0.3               | 21.42      | 0.14     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 22.03                           | -0.3               | 21.73      | 0.15     | 2.00      | Pass    |
|                  |              |            | RB1#50                | 21.89                           | -0.3               | 21.59      | 0.14     | 2.00      | Pass    |
|                  |              |            | RB1#99                | 21.95                           | -0.3               | 21.65      | 0.15     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 20.74                           | -0.3               | 20.44      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#25               | 20.58                           | -0.3               | 20.28      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#50               | 20.56                           | -0.3               | 20.26      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 20.70                           | -0.3               | 20.40      | 0.11     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND4 |              |            |                       |                                 |                    |            |          |           |         |
| 1.4 MHz   | LCH          | QPSK       | RB1#0                 | 23.38                           | 0.6                | 23.98      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#3                 | 23.34                           | 0.6                | 23.94      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#5                 | 23.38                           | 0.6                | 23.98      | 0.25     | 1.00      | Pass    |
|           |              |            | RB3#0                 | 23.33                           | 0.6                | 23.93      | 0.25     | 1.00      | Pass    |
|           |              |            | RB3#2                 | 23.37                           | 0.6                | 23.97      | 0.25     | 1.00      | Pass    |
|           |              |            | RB3#3                 | 23.39                           | 0.6                | 23.99      | 0.25     | 1.00      | Pass    |
|           |              |            | RB6#0                 | 22.35                           | 0.6                | 22.95      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.34                           | 0.6                | 22.94      | 0.20     | 1.00      | Pass    |
|           |              |            | RB1#3                 | 22.29                           | 0.6                | 22.89      | 0.19     | 1.00      | Pass    |
|           |              |            | RB1#5                 | 22.39                           | 0.6                | 22.99      | 0.20     | 1.00      | Pass    |
|           |              |            | RB3#0                 | 22.43                           | 0.6                | 23.03      | 0.20     | 1.00      | Pass    |
|           |              |            | RB3#2                 | 22.40                           | 0.6                | 23.00      | 0.20     | 1.00      | Pass    |
|           |              |            | RB3#3                 | 22.39                           | 0.6                | 22.99      | 0.20     | 1.00      | Pass    |
|           |              |            | RB6#0                 | 21.38                           | 0.6                | 21.98      | 0.16     | 1.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 23.38                           | 0.6                | 23.98      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#3                 | 23.38                           | 0.6                | 23.98      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#5                 | 23.38                           | 0.6                | 23.98      | 0.25     | 1.00      | Pass    |
|           |              |            | RB3#0                 | 23.42                           | 0.6                | 24.02      | 0.25     | 1.00      | Pass    |
|           |              |            | RB3#2                 | 23.43                           | 0.6                | 24.03      | 0.25     | 1.00      | Pass    |
|           |              |            | RB3#3                 | 23.44                           | 0.6                | 24.04      | 0.25     | 1.00      | Pass    |
|           |              |            | RB6#0                 | 22.35                           | 0.6                | 22.95      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.69                           | 0.6                | 23.29      | 0.21     | 1.00      | Pass    |
|           |              |            | RB1#3                 | 22.61                           | 0.6                | 23.21      | 0.21     | 1.00      | Pass    |
|           |              |            | RB1#5                 | 22.70                           | 0.6                | 23.30      | 0.21     | 1.00      | Pass    |
|           |              |            | RB3#0                 | 22.58                           | 0.6                | 23.18      | 0.21     | 1.00      | Pass    |
|           |              |            | RB3#2                 | 22.57                           | 0.6                | 23.17      | 0.21     | 1.00      | Pass    |
|           |              |            | RB3#3                 | 22.63                           | 0.6                | 23.23      | 0.21     | 1.00      | Pass    |
|           |              |            | RB6#0                 | 21.23                           | 0.6                | 21.83      | 0.15     | 1.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.8                            | 0.6                | 23.40      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#3                 | 22.84                           | 0.6                | 23.44      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#5                 | 22.84                           | 0.6                | 23.44      | 0.22     | 1.00      | Pass    |
|           |              |            | RB3#0                 | 22.92                           | 0.6                | 23.52      | 0.22     | 1.00      | Pass    |
|           |              |            | RB3#2                 | 22.91                           | 0.6                | 23.51      | 0.22     | 1.00      | Pass    |
|           |              |            | RB3#3                 | 22.86                           | 0.6                | 23.46      | 0.22     | 1.00      | Pass    |
|           |              |            | RB6#0                 | 21.87                           | 0.6                | 22.47      | 0.18     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.84                           | 0.6                | 22.44      | 0.18     | 1.00      | Pass    |
|           |              |            | RB1#3                 | 21.77                           | 0.6                | 22.37      | 0.17     | 1.00      | Pass    |
|           |              |            | RB1#5                 | 21.87                           | 0.6                | 22.47      | 0.18     | 1.00      | Pass    |
|           |              |            | RB3#0                 | 22.08                           | 0.6                | 22.68      | 0.19     | 1.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND4 |              |            |                       |                                 |                    |            |          |           |         |
| 3 MHz     |              |            | RB3#2                 | 22.11                           | 0.6                | 22.71      | 0.19     | 1.00      | Pass    |
|           |              |            | RB3#3                 | 22.14                           | 0.6                | 22.74      | 0.19     | 1.00      | Pass    |
|           |              |            | RB6#0                 | 20.94                           | 0.6                | 21.54      | 0.14     | 1.00      | Pass    |
|           | LCH          | QPSK       | RB1#0                 | 23.36                           | 0.6                | 23.96      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#7                 | 23.33                           | 0.6                | 23.93      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#14                | 23.40                           | 0.6                | 24.00      | 0.25     | 1.00      | Pass    |
|           |              |            | RB8#0                 | 22.44                           | 0.6                | 23.04      | 0.20     | 1.00      | Pass    |
|           |              |            | RB8#4                 | 22.48                           | 0.6                | 23.08      | 0.20     | 1.00      | Pass    |
|           |              |            | RB8#7                 | 22.49                           | 0.6                | 23.09      | 0.20     | 1.00      | Pass    |
|           |              |            | RB15#0                | 22.43                           | 0.6                | 23.03      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.13                           | 0.6                | 22.73      | 0.19     | 1.00      | Pass    |
|           |              |            | RB1#7                 | 22.09                           | 0.6                | 22.69      | 0.19     | 1.00      | Pass    |
|           |              |            | RB1#14                | 22.16                           | 0.6                | 22.76      | 0.19     | 1.00      | Pass    |
|           |              |            | RB8#0                 | 21.49                           | 0.6                | 22.09      | 0.16     | 1.00      | Pass    |
|           |              |            | RB8#4                 | 21.52                           | 0.6                | 22.12      | 0.16     | 1.00      | Pass    |
|           |              |            | RB8#7                 | 21.54                           | 0.6                | 22.14      | 0.16     | 1.00      | Pass    |
|           |              |            | RB15#0                | 21.42                           | 0.6                | 22.02      | 0.16     | 1.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 23.43                           | 0.6                | 24.03      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#7                 | 23.37                           | 0.6                | 23.97      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#14                | 23.44                           | 0.6                | 24.04      | 0.25     | 1.00      | Pass    |
|           |              |            | RB8#0                 | 22.46                           | 0.6                | 23.06      | 0.20     | 1.00      | Pass    |
|           |              |            | RB8#4                 | 22.46                           | 0.6                | 23.06      | 0.20     | 1.00      | Pass    |
|           |              |            | RB8#7                 | 22.49                           | 0.6                | 23.09      | 0.20     | 1.00      | Pass    |
|           |              |            | RB15#0                | 22.42                           | 0.6                | 23.02      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.64                           | 0.6                | 23.24      | 0.21     | 1.00      | Pass    |
|           |              |            | RB1#7                 | 22.59                           | 0.6                | 23.19      | 0.21     | 1.00      | Pass    |
|           |              |            | RB1#14                | 22.63                           | 0.6                | 23.23      | 0.21     | 1.00      | Pass    |
|           |              |            | RB8#0                 | 21.46                           | 0.6                | 22.06      | 0.16     | 1.00      | Pass    |
|           |              |            | RB8#4                 | 21.46                           | 0.6                | 22.06      | 0.16     | 1.00      | Pass    |
|           |              |            | RB8#7                 | 21.49                           | 0.6                | 22.09      | 0.16     | 1.00      | Pass    |
|           |              |            | RB15#0                | 21.42                           | 0.6                | 22.02      | 0.16     | 1.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.87                           | 0.6                | 23.47      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#7                 | 22.83                           | 0.6                | 23.43      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#14                | 22.9                            | 0.6                | 23.50      | 0.22     | 1.00      | Pass    |
|           |              |            | RB8#0                 | 21.97                           | 0.6                | 22.57      | 0.18     | 1.00      | Pass    |
|           |              |            | RB8#4                 | 22.00                           | 0.6                | 22.60      | 0.18     | 1.00      | Pass    |
|           |              |            | RB8#7                 | 22.04                           | 0.6                | 22.64      | 0.18     | 1.00      | Pass    |
|           |              |            | RB15#0                | 21.96                           | 0.6                | 22.56      | 0.18     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.84                           | 0.6                | 22.44      | 0.18     | 1.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND4 |              |            |                       |                                 |                    |            |          |           |         |
| 5 MHz     |              |            | RB1#7                 | 21.74                           | 0.6                | 22.34      | 0.17     | 1.00      | Pass    |
|           |              |            | RB1#14                | 21.8                            | 0.6                | 22.40      | 0.17     | 1.00      | Pass    |
|           |              |            | RB8#0                 | 20.96                           | 0.6                | 21.56      | 0.14     | 1.00      | Pass    |
|           |              |            | RB8#4                 | 21.00                           | 0.6                | 21.60      | 0.14     | 1.00      | Pass    |
|           |              |            | RB8#7                 | 21.03                           | 0.6                | 21.63      | 0.15     | 1.00      | Pass    |
|           |              |            | RB15#0                | 20.92                           | 0.6                | 21.52      | 0.14     | 1.00      | Pass    |
|           | LCH          | QPSK       | RB1#0                 | 23.41                           | 0.6                | 24.01      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#13                | 23.39                           | 0.6                | 23.99      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#24                | 23.42                           | 0.6                | 24.02      | 0.25     | 1.00      | Pass    |
|           |              |            | RB12#0                | 22.33                           | 0.6                | 22.93      | 0.20     | 1.00      | Pass    |
|           |              |            | RB12#6                | 22.37                           | 0.6                | 22.97      | 0.20     | 1.00      | Pass    |
|           |              |            | RB12#13               | 22.38                           | 0.6                | 22.98      | 0.20     | 1.00      | Pass    |
|           |              |            | RB25#0                | 22.37                           | 0.6                | 22.97      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.35                           | 0.6                | 22.95      | 0.20     | 1.00      | Pass    |
|           |              |            | RB1#13                | 22.36                           | 0.6                | 22.96      | 0.20     | 1.00      | Pass    |
|           |              |            | RB1#24                | 22.40                           | 0.6                | 23.00      | 0.20     | 1.00      | Pass    |
|           |              |            | RB12#0                | 21.38                           | 0.6                | 21.98      | 0.16     | 1.00      | Pass    |
|           |              |            | RB12#6                | 21.43                           | 0.6                | 22.03      | 0.16     | 1.00      | Pass    |
|           |              |            | RB12#13               | 21.44                           | 0.6                | 22.04      | 0.16     | 1.00      | Pass    |
|           |              |            | RB25#0                | 21.37                           | 0.6                | 21.97      | 0.16     | 1.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 23.37                           | 0.6                | 23.97      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#13                | 23.37                           | 0.6                | 23.97      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#24                | 23.37                           | 0.6                | 23.97      | 0.25     | 1.00      | Pass    |
|           |              |            | RB12#0                | 22.40                           | 0.6                | 23.00      | 0.20     | 1.00      | Pass    |
|           |              |            | RB12#6                | 22.43                           | 0.6                | 23.03      | 0.20     | 1.00      | Pass    |
|           |              |            | RB12#13               | 22.36                           | 0.6                | 22.96      | 0.20     | 1.00      | Pass    |
|           |              |            | RB25#0                | 22.37                           | 0.6                | 22.97      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.75                           | 0.6                | 23.35      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#13                | 22.74                           | 0.6                | 23.34      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#24                | 22.75                           | 0.6                | 23.35      | 0.22     | 1.00      | Pass    |
|           |              |            | RB12#0                | 21.50                           | 0.6                | 22.10      | 0.16     | 1.00      | Pass    |
|           |              |            | RB12#6                | 21.52                           | 0.6                | 22.12      | 0.16     | 1.00      | Pass    |
|           |              |            | RB12#13               | 21.47                           | 0.6                | 22.07      | 0.16     | 1.00      | Pass    |
|           |              |            | RB25#0                | 21.41                           | 0.6                | 22.01      | 0.16     | 1.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.98                           | 0.6                | 23.58      | 0.23     | 1.00      | Pass    |
|           |              |            | RB1#13                | 22.98                           | 0.6                | 23.58      | 0.23     | 1.00      | Pass    |
|           |              |            | RB1#24                | 22.98                           | 0.6                | 23.58      | 0.23     | 1.00      | Pass    |
|           |              |            | RB12#0                | 21.97                           | 0.6                | 22.57      | 0.18     | 1.00      | Pass    |
|           |              |            | RB12#6                | 22.02                           | 0.6                | 22.62      | 0.18     | 1.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND4 |              |            |                       |                                 |                    |            |          |           |         |
|           |              |            | RB12#13               | 21.99                           | 0.6                | 22.59      | 0.18     | 1.00      | Pass    |
|           |              |            | RB25#0                | 21.97                           | 0.6                | 22.57      | 0.18     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.96                           | 0.6                | 22.56      | 0.18     | 1.00      | Pass    |
|           |              |            | RB1#13                | 21.92                           | 0.6                | 22.52      | 0.18     | 1.00      | Pass    |
|           |              |            | RB1#24                | 21.95                           | 0.6                | 22.55      | 0.18     | 1.00      | Pass    |
|           |              |            | RB12#0                | 21.02                           | 0.6                | 21.62      | 0.15     | 1.00      | Pass    |
|           |              |            | RB12#6                | 21.06                           | 0.6                | 21.66      | 0.15     | 1.00      | Pass    |
|           |              |            | RB12#13               | 21.02                           | 0.6                | 21.62      | 0.15     | 1.00      | Pass    |
|           |              |            | RB25#0                | 20.93                           | 0.6                | 21.53      | 0.14     | 1.00      | Pass    |
|           | 10 MHz       | QPSK       | RB1#0                 | 23.28                           | 0.6                | 23.88      | 0.24     | 1.00      | Pass    |
|           |              |            | RB1#25                | 23.24                           | 0.6                | 23.84      | 0.24     | 1.00      | Pass    |
|           |              |            | RB1#49                | 23.29                           | 0.6                | 23.89      | 0.24     | 1.00      | Pass    |
|           |              |            | RB25#0                | 22.17                           | 0.6                | 22.77      | 0.19     | 1.00      | Pass    |
|           |              |            | RB25#13               | 22.21                           | 0.6                | 22.81      | 0.19     | 1.00      | Pass    |
|           |              |            | RB25#25               | 22.24                           | 0.6                | 22.84      | 0.19     | 1.00      | Pass    |
|           |              |            | RB50#0                | 22.22                           | 0.6                | 22.82      | 0.19     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.04                           | 0.6                | 22.64      | 0.18     | 1.00      | Pass    |
|           |              |            | RB1#25                | 22.09                           | 0.6                | 22.69      | 0.19     | 1.00      | Pass    |
|           |              |            | RB1#49                | 22.12                           | 0.6                | 22.72      | 0.19     | 1.00      | Pass    |
|           |              |            | RB25#0                | 21.20                           | 0.6                | 21.80      | 0.15     | 1.00      | Pass    |
|           |              |            | RB25#13               | 21.25                           | 0.6                | 21.85      | 0.15     | 1.00      | Pass    |
|           |              |            | RB25#25               | 21.28                           | 0.6                | 21.88      | 0.15     | 1.00      | Pass    |
|           |              |            | RB50#0                | 21.21                           | 0.6                | 21.81      | 0.15     | 1.00      | Pass    |
|           |              | QPSK       | RB1#0                 | 23.55                           | 0.6                | 24.15      | 0.26     | 1.00      | Pass    |
|           |              |            | RB1#25                | 23.52                           | 0.6                | 24.12      | 0.26     | 1.00      | Pass    |
|           |              |            | RB1#49                | 23.54                           | 0.6                | 24.14      | 0.26     | 1.00      | Pass    |
|           |              |            | RB25#0                | 22.44                           | 0.6                | 23.04      | 0.20     | 1.00      | Pass    |
|           |              |            | RB25#13               | 22.39                           | 0.6                | 22.99      | 0.20     | 1.00      | Pass    |
|           |              |            | RB25#25               | 22.32                           | 0.6                | 22.92      | 0.20     | 1.00      | Pass    |
|           |              |            | RB50#0                | 22.39                           | 0.6                | 22.99      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.74                           | 0.6                | 23.34      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#25                | 22.71                           | 0.6                | 23.31      | 0.21     | 1.00      | Pass    |
|           |              |            | RB1#49                | 22.71                           | 0.6                | 23.31      | 0.21     | 1.00      | Pass    |
|           |              |            | RB25#0                | 21.47                           | 0.6                | 22.07      | 0.16     | 1.00      | Pass    |
|           |              |            | RB25#13               | 21.40                           | 0.6                | 22.00      | 0.16     | 1.00      | Pass    |
|           |              |            | RB25#25               | 21.35                           | 0.6                | 21.95      | 0.16     | 1.00      | Pass    |
|           |              |            | RB50#0                | 21.41                           | 0.6                | 22.01      | 0.16     | 1.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 23.26                           | 0.6                | 23.86      | 0.24     | 1.00      | Pass    |
|           |              |            | RB1#25                | 23.20                           | 0.6                | 23.80      | 0.24     | 1.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND4 |              |            |                       |                                 |                    |            |          |           |         |
|           |              |            | RB1#49                | 23.24                           | 0.6                | 23.84      | 0.24     | 1.00      | Pass    |
|           |              |            | RB25#0                | 22.16                           | 0.6                | 22.76      | 0.19     | 1.00      | Pass    |
|           |              |            | RB25#13               | 22.15                           | 0.6                | 22.75      | 0.19     | 1.00      | Pass    |
|           |              |            | RB25#25               | 22.14                           | 0.6                | 22.74      | 0.19     | 1.00      | Pass    |
|           |              |            | RB50#0                | 22.16                           | 0.6                | 22.76      | 0.19     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.20                           | 0.6                | 22.80      | 0.19     | 1.00      | Pass    |
|           |              |            | RB1#25                | 22.13                           | 0.6                | 22.73      | 0.19     | 1.00      | Pass    |
|           |              |            | RB1#49                | 22.11                           | 0.6                | 22.71      | 0.19     | 1.00      | Pass    |
|           |              |            | RB25#0                | 21.27                           | 0.6                | 21.87      | 0.15     | 1.00      | Pass    |
|           |              |            | RB25#13               | 21.25                           | 0.6                | 21.85      | 0.15     | 1.00      | Pass    |
|           |              |            | RB25#25               | 21.24                           | 0.6                | 21.84      | 0.15     | 1.00      | Pass    |
|           |              |            | RB50#0                | 21.21                           | 0.6                | 21.81      | 0.15     | 1.00      | Pass    |
| 15 MHz    | LCH          | QPSK       | RB1#0                 | 23.19                           | 0.6                | 23.79      | 0.24     | 1.00      | Pass    |
|           |              |            | RB1#38                | 23.07                           | 0.6                | 23.67      | 0.23     | 1.00      | Pass    |
|           |              |            | RB1#74                | 23.09                           | 0.6                | 23.69      | 0.23     | 1.00      | Pass    |
|           |              |            | RB36#0                | 22.11                           | 0.6                | 22.71      | 0.19     | 1.00      | Pass    |
|           |              |            | RB36#19               | 22.11                           | 0.6                | 22.71      | 0.19     | 1.00      | Pass    |
|           |              |            | RB36#39               | 22.13                           | 0.6                | 22.73      | 0.19     | 1.00      | Pass    |
|           |              |            | RB75#0                | 22.16                           | 0.6                | 22.76      | 0.19     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.94                           | 0.6                | 22.54      | 0.18     | 1.00      | Pass    |
|           |              |            | RB1#38                | 21.89                           | 0.6                | 22.49      | 0.18     | 1.00      | Pass    |
|           |              |            | RB1#74                | 21.92                           | 0.6                | 22.52      | 0.18     | 1.00      | Pass    |
|           |              |            | RB36#0                | 21.05                           | 0.6                | 21.65      | 0.15     | 1.00      | Pass    |
|           |              |            | RB36#19               | 21.05                           | 0.6                | 21.65      | 0.15     | 1.00      | Pass    |
|           |              |            | RB36#39               | 21.07                           | 0.6                | 21.67      | 0.15     | 1.00      | Pass    |
|           |              |            | RB75#0                | 21.10                           | 0.6                | 21.70      | 0.15     | 1.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 23.64                           | 0.6                | 24.24      | 0.27     | 1.00      | Pass    |
|           |              |            | RB1#38                | 23.52                           | 0.6                | 24.12      | 0.26     | 1.00      | Pass    |
|           |              |            | RB1#74                | 23.54                           | 0.6                | 24.14      | 0.26     | 1.00      | Pass    |
|           |              |            | RB36#0                | 22.59                           | 0.6                | 23.19      | 0.21     | 1.00      | Pass    |
|           |              |            | RB36#19               | 22.53                           | 0.6                | 23.13      | 0.21     | 1.00      | Pass    |
|           |              |            | RB36#39               | 22.49                           | 0.6                | 23.09      | 0.20     | 1.00      | Pass    |
|           |              |            | RB75#0                | 22.55                           | 0.6                | 23.15      | 0.21     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.85                           | 0.6                | 23.45      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#38                | 22.71                           | 0.6                | 23.31      | 0.21     | 1.00      | Pass    |
|           |              |            | RB1#74                | 22.74                           | 0.6                | 23.34      | 0.22     | 1.00      | Pass    |
|           |              | 16-QAM     | RB36#0                | 21.55                           | 0.6                | 22.15      | 0.16     | 1.00      | Pass    |
|           |              |            | RB36#19               | 21.48                           | 0.6                | 22.08      | 0.16     | 1.00      | Pass    |
|           |              |            | RB36#39               | 21.44                           | 0.6                | 22.04      | 0.16     | 1.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND4 |              |            |                       |                                 |                    |            |          |           |         |
|           | HCH          | QPSK       | RB75#0                | 21.5                            | 0.6                | 22.10      | 0.16     | 1.00      | Pass    |
|           |              |            | RB1#0                 | 23.63                           | 0.6                | 24.23      | 0.26     | 1.00      | Pass    |
|           |              |            | RB1#38                | 23.39                           | 0.6                | 23.99      | 0.25     | 1.00      | Pass    |
|           |              |            | RB1#74                | 23.48                           | 0.6                | 24.08      | 0.26     | 1.00      | Pass    |
|           |              |            | RB36#0                | 22.47                           | 0.6                | 23.07      | 0.20     | 1.00      | Pass    |
|           |              |            | RB36#19               | 22.40                           | 0.6                | 23.00      | 0.20     | 1.00      | Pass    |
|           |              |            | RB36#39               | 22.39                           | 0.6                | 22.99      | 0.20     | 1.00      | Pass    |
|           |              |            | RB75#0                | 22.45                           | 0.6                | 23.05      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.75                           | 0.6                | 23.35      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#38                | 22.58                           | 0.6                | 23.18      | 0.21     | 1.00      | Pass    |
|           |              |            | RB1#74                | 22.57                           | 0.6                | 23.17      | 0.21     | 1.00      | Pass    |
|           |              |            | RB36#0                | 21.39                           | 0.6                | 21.99      | 0.16     | 1.00      | Pass    |
|           |              |            | RB36#19               | 21.31                           | 0.6                | 21.91      | 0.16     | 1.00      | Pass    |
|           |              |            | RB36#39               | 21.31                           | 0.6                | 21.91      | 0.16     | 1.00      | Pass    |
|           |              |            | RB75#0                | 21.39                           | 0.6                | 21.99      | 0.16     | 1.00      | Pass    |
| 20 MHz    | LCH          | QPSK       | RB1#0                 | 23.39                           | 0.6                | 23.79      | 0.24     | 1.00      | Pass    |
|           |              |            | RB1#50                | 23.01                           | 0.6                | 23.61      | 0.23     | 1.00      | Pass    |
|           |              |            | RB1#99                | 23.14                           | 0.6                | 23.74      | 0.24     | 1.00      | Pass    |
|           |              |            | RB50#0                | 21.97                           | 0.6                | 22.57      | 0.18     | 1.00      | Pass    |
|           |              |            | RB50#25               | 21.97                           | 0.6                | 22.57      | 0.18     | 1.00      | Pass    |
|           |              |            | RB50#50               | 21.97                           | 0.6                | 22.57      | 0.18     | 1.00      | Pass    |
|           |              |            | RB100#0               | 21.96                           | 0.6                | 22.56      | 0.18     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.55                           | 0.6                | 23.15      | 0.21     | 1.00      | Pass    |
|           |              |            | RB1#50                | 22.44                           | 0.6                | 23.04      | 0.20     | 1.00      | Pass    |
|           |              |            | RB1#99                | 22.51                           | 0.6                | 23.11      | 0.20     | 1.00      | Pass    |
|           |              |            | RB50#0                | 21.00                           | 0.6                | 21.60      | 0.14     | 1.00      | Pass    |
|           |              |            | RB50#25               | 21.00                           | 0.6                | 21.60      | 0.14     | 1.00      | Pass    |
|           |              |            | RB50#50               | 21.01                           | 0.6                | 21.61      | 0.14     | 1.00      | Pass    |
|           |              |            | RB100#0               | 21.03                           | 0.6                | 21.63      | 0.15     | 1.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 23.68                           | 0.6                | 24.28      | 0.27     | 1.00      | Pass    |
|           |              |            | RB1#50                | 23.49                           | 0.6                | 24.09      | 0.26     | 1.00      | Pass    |
|           |              |            | RB1#99                | 23.57                           | 0.6                | 24.17      | 0.26     | 1.00      | Pass    |
|           |              |            | RB50#0                | 22.58                           | 0.6                | 23.18      | 0.21     | 1.00      | Pass    |
|           |              |            | RB50#25               | 22.43                           | 0.6                | 23.03      | 0.20     | 1.00      | Pass    |
|           |              |            | RB50#50               | 22.35                           | 0.6                | 22.95      | 0.20     | 1.00      | Pass    |
|           |              |            | RB100#0               | 22.48                           | 0.6                | 23.08      | 0.20     | 1.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.96                           | 0.6                | 23.56      | 0.23     | 1.00      | Pass    |
|           |              |            | RB1#50                | 22.76                           | 0.6                | 23.36      | 0.22     | 1.00      | Pass    |
|           |              |            | RB1#99                | 22.82                           | 0.6                | 23.42      | 0.22     | 1.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND4</b> |              |            |                       |                                 |                    |            |          |           |         |
|                  |              |            | RB50#0                | 21.59                           | 0.6                | 22.19      | 0.17     | 1.00      | Pass    |
|                  |              |            | RB50#25               | 21.43                           | 0.6                | 22.03      | 0.16     | 1.00      | Pass    |
|                  |              |            | RB50#50               | 21.36                           | 0.6                | 21.96      | 0.16     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 21.47                           | 0.6                | 22.07      | 0.16     | 1.00      | Pass    |
|                  | HCH          | QPSK       | RB1#0                 | 23.58                           | 0.6                | 24.18      | 0.26     | 1.00      | Pass    |
|                  |              |            | RB1#50                | 23.27                           | 0.6                | 23.87      | 0.24     | 1.00      | Pass    |
|                  |              |            | RB1#99                | 23.38                           | 0.6                | 23.98      | 0.25     | 1.00      | Pass    |
|                  |              |            | RB50#0                | 22.41                           | 0.6                | 23.01      | 0.20     | 1.00      | Pass    |
|                  |              |            | RB50#25               | 22.23                           | 0.6                | 22.83      | 0.19     | 1.00      | Pass    |
|                  |              |            | RB50#50               | 22.24                           | 0.6                | 22.84      | 0.19     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 22.34                           | 0.6                | 22.94      | 0.20     | 1.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 22.76                           | 0.6                | 23.36      | 0.22     | 1.00      | Pass    |
|                  |              |            | RB1#50                | 22.52                           | 0.6                | 23.12      | 0.21     | 1.00      | Pass    |
|                  |              |            | RB1#99                | 22.57                           | 0.6                | 23.17      | 0.21     | 1.00      | Pass    |
|                  |              |            | RB50#0                | 21.39                           | 0.6                | 21.99      | 0.16     | 1.00      | Pass    |
|                  |              |            | RB50#25               | 21.22                           | 0.6                | 21.82      | 0.15     | 1.00      | Pass    |
|                  |              |            | RB50#50               | 21.23                           | 0.6                | 21.83      | 0.15     | 1.00      | Pass    |
|                  |              |            | RB100#0               | 21.34                           | 0.6                | 21.94      | 0.16     | 1.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND7 |              |            |                       |                                 |                    |            |          |           |         |
| 5 MHz     | LCH          | QPSK       | RB1#0                 | 22.43                           | 0                  | 22.43      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#13                | 22.41                           | 0                  | 22.41      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#24                | 22.45                           | 0                  | 22.45      | 0.18     | 2.00      | Pass    |
|           |              |            | RB12#0                | 21.32                           | 0                  | 21.32      | 0.14     | 2.00      | Pass    |
|           |              |            | RB12#6                | 21.39                           | 0                  | 21.39      | 0.14     | 2.00      | Pass    |
|           |              |            | RB12#13               | 21.40                           | 0                  | 21.40      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.37                           | 0                  | 21.37      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.38                           | 0                  | 21.38      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#13                | 21.39                           | 0                  | 21.39      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#24                | 21.43                           | 0                  | 21.43      | 0.14     | 2.00      | Pass    |
|           |              |            | RB12#0                | 20.43                           | 0                  | 20.43      | 0.11     | 2.00      | Pass    |
|           |              |            | RB12#6                | 20.49                           | 0                  | 20.49      | 0.11     | 2.00      | Pass    |
|           |              |            | RB12#13               | 20.5                            | 0                  | 20.50      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.41                           | 0                  | 20.41      | 0.11     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.00                           | 0                  | 22.00      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#13                | 22.14                           | 0                  | 22.14      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#24                | 21.99                           | 0                  | 21.99      | 0.16     | 2.00      | Pass    |
|           |              |            | RB12#0                | 21.27                           | 0                  | 21.27      | 0.13     | 2.00      | Pass    |
|           |              |            | RB12#6                | 21.27                           | 0                  | 21.27      | 0.13     | 2.00      | Pass    |
|           |              |            | RB12#13               | 21.24                           | 0                  | 21.24      | 0.13     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.25                           | 0                  | 21.25      | 0.13     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.69                           | 0                  | 21.69      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#13                | 21.6                            | 0                  | 21.60      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#24                | 21.67                           | 0                  | 21.67      | 0.15     | 2.00      | Pass    |
|           |              |            | RB12#0                | 20.47                           | 0                  | 20.47      | 0.11     | 2.00      | Pass    |
|           |              |            | RB12#6                | 20.47                           | 0                  | 20.47      | 0.11     | 2.00      | Pass    |
|           |              |            | RB12#13               | 20.45                           | 0                  | 20.45      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.40                           | 0                  | 20.40      | 0.11     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.3                            | 0                  | 22.30      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#13                | 22.36                           | 0                  | 22.36      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#24                | 22.37                           | 0                  | 22.37      | 0.17     | 2.00      | Pass    |
|           |              |            | RB12#0                | 21.38                           | 0                  | 21.38      | 0.14     | 2.00      | Pass    |
|           |              |            | RB12#6                | 21.41                           | 0                  | 21.41      | 0.14     | 2.00      | Pass    |
|           |              |            | RB12#13               | 21.39                           | 0                  | 21.39      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.37                           | 0                  | 21.37      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.33                           | 0                  | 21.33      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#13                | 21.29                           | 0                  | 21.29      | 0.13     | 2.00      | Pass    |
|           |              |            | RB1#24                | 21.34                           | 0                  | 21.34      | 0.14     | 2.00      | Pass    |
|           |              |            | RB12#0                | 20.47                           | 0                  | 20.47      | 0.11     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND7 |              |            |                       |                                 |                    |            |          |           |         |
| 10 MHz    |              |            | RB12#6                | 20.50                           | 0                  | 20.50      | 0.11     | 2.00      | Pass    |
|           |              |            | RB12#13               | 20.48                           | 0                  | 20.48      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.4                            | 0                  | 20.40      | 0.11     | 2.00      | Pass    |
|           | LCH          | QPSK       | RB1#0                 | 22.44                           | 0                  | 22.44      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#25                | 22.45                           | 0                  | 22.45      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#49                | 22.54                           | 0                  | 22.54      | 0.18     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.30                           | 0                  | 21.30      | 0.13     | 2.00      | Pass    |
|           |              |            | RB25#13               | 21.38                           | 0                  | 21.38      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#25               | 21.46                           | 0                  | 21.46      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.41                           | 0                  | 21.41      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.22                           | 0                  | 21.22      | 0.13     | 2.00      | Pass    |
|           |              |            | RB1#25                | 21.26                           | 0                  | 21.26      | 0.13     | 2.00      | Pass    |
|           |              |            | RB1#49                | 21.34                           | 0                  | 21.34      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.37                           | 0                  | 20.37      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#13               | 20.46                           | 0                  | 20.46      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#25               | 20.53                           | 0                  | 20.53      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#0                | 20.43                           | 0                  | 20.43      | 0.11     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.23                           | 0                  | 22.23      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#25                | 22.17                           | 0                  | 22.17      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#49                | 22.18                           | 0                  | 22.18      | 0.17     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.39                           | 0                  | 21.39      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#13               | 21.32                           | 0                  | 21.32      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#25               | 21.37                           | 0                  | 21.37      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.42                           | 0                  | 21.42      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.78                           | 0                  | 21.78      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#25                | 21.6                            | 0                  | 21.60      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#49                | 21.73                           | 0                  | 21.73      | 0.15     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.48                           | 0                  | 20.48      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#13               | 20.43                           | 0                  | 20.43      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#25               | 20.48                           | 0                  | 20.48      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#0                | 20.49                           | 0                  | 20.49      | 0.11     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.36                           | 0                  | 22.36      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#25                | 22.21                           | 0                  | 22.21      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#49                | 22.36                           | 0                  | 22.36      | 0.17     | 2.00      | Pass    |
|           |              |            | RB25#0                | 21.42                           | 0                  | 21.42      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#13               | 21.37                           | 0                  | 21.37      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#25               | 21.37                           | 0                  | 21.37      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.43                           | 0                  | 21.43      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.36                           | 0                  | 21.36      | 0.14     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND7 |              |            |                       |                                 |                    |            |          |           |         |
| 15 MHz    |              |            | RB1#25                | 21.33                           | 0                  | 21.33      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#49                | 21.33                           | 0                  | 21.33      | 0.14     | 2.00      | Pass    |
|           |              |            | RB25#0                | 20.56                           | 0                  | 20.56      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#13               | 20.52                           | 0                  | 20.52      | 0.11     | 2.00      | Pass    |
|           |              |            | RB25#25               | 20.52                           | 0                  | 20.52      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#0                | 20.51                           | 0                  | 20.51      | 0.11     | 2.00      | Pass    |
|           | LCH          | QPSK       | RB1#0                 | 22.58                           | 0                  | 22.58      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#38                | 22.46                           | 0                  | 22.46      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#74                | 22.59                           | 0                  | 22.59      | 0.18     | 2.00      | Pass    |
|           |              |            | RB36#0                | 21.48                           | 0                  | 21.48      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#19               | 21.51                           | 0                  | 21.51      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#39               | 21.56                           | 0                  | 21.56      | 0.14     | 2.00      | Pass    |
|           |              |            | RB75#0                | 21.55                           | 0                  | 21.55      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.34                           | 0                  | 21.34      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#38                | 21.29                           | 0                  | 21.29      | 0.13     | 2.00      | Pass    |
|           |              |            | RB1#74                | 21.36                           | 0                  | 21.36      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#0                | 20.43                           | 0                  | 20.43      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#19               | 20.47                           | 0                  | 20.47      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#39               | 20.50                           | 0                  | 20.50      | 0.11     | 2.00      | Pass    |
|           |              |            | RB75#0                | 20.50                           | 0                  | 20.50      | 0.11     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.48                           | 0                  | 22.48      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#38                | 22.17                           | 0                  | 22.17      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#74                | 22.34                           | 0                  | 22.34      | 0.17     | 2.00      | Pass    |
|           |              |            | RB36#0                | 21.61                           | 0                  | 21.61      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#19               | 21.42                           | 0                  | 21.42      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#39               | 21.49                           | 0                  | 21.49      | 0.14     | 2.00      | Pass    |
|           |              |            | RB75#0                | 21.56                           | 0                  | 21.56      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.97                           | 0                  | 21.97      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#38                | 21.43                           | 0                  | 21.43      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#74                | 21.67                           | 0                  | 21.67      | 0.15     | 2.00      | Pass    |
|           |              |            | RB36#0                | 20.61                           | 0                  | 20.61      | 0.12     | 2.00      | Pass    |
|           |              |            | RB36#19               | 20.48                           | 0                  | 20.48      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#39               | 20.36                           | 0                  | 20.36      | 0.11     | 2.00      | Pass    |
|           |              |            | RB75#0                | 20.58                           | 0                  | 20.58      | 0.11     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.72                           | 0                  | 22.72      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#38                | 22.28                           | 0                  | 22.28      | 0.17     | 2.00      | Pass    |
|           |              |            | RB1#74                | 22.41                           | 0                  | 22.41      | 0.17     | 2.00      | Pass    |
|           |              |            | RB36#0                | 21.64                           | 0                  | 21.64      | 0.15     | 2.00      | Pass    |
|           |              |            | RB36#19               | 21.50                           | 0                  | 21.50      | 0.14     | 2.00      | Pass    |

| Test BW   | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|-----------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| LTE BAND7 |              |            |                       |                                 |                    |            |          |           |         |
| 20 MHz    |              |            | RB36#39               | 21.47                           | 0                  | 21.47      | 0.14     | 2.00      | Pass    |
|           |              |            | RB75#0                | 21.58                           | 0                  | 21.58      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.48                           | 0                  | 21.48      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#38                | 21.30                           | 0                  | 21.30      | 0.13     | 2.00      | Pass    |
|           |              |            | RB1#74                | 21.50                           | 0                  | 21.50      | 0.14     | 2.00      | Pass    |
|           |              |            | RB36#0                | 20.45                           | 0                  | 20.45      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#19               | 20.32                           | 0                  | 20.32      | 0.11     | 2.00      | Pass    |
|           |              |            | RB36#39               | 20.41                           | 0                  | 20.41      | 0.11     | 2.00      | Pass    |
|           |              |            | RB75#0                | 20.51                           | 0                  | 20.51      | 0.11     | 2.00      | Pass    |
|           | LCH          | QPSK       | RB1#0                 | 22.69                           | 0                  | 22.69      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#50                | 22.54                           | 0                  | 22.54      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#99                | 22.64                           | 0                  | 22.64      | 0.18     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.42                           | 0                  | 21.42      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#25               | 21.46                           | 0                  | 21.46      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#50               | 21.44                           | 0                  | 21.44      | 0.14     | 2.00      | Pass    |
|           |              |            | RB100#0               | 21.43                           | 0                  | 21.43      | 0.14     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 22.07                           | 0                  | 22.07      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#50                | 21.86                           | 0                  | 21.86      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#99                | 21.82                           | 0                  | 21.82      | 0.15     | 2.00      | Pass    |
|           |              |            | RB50#0                | 20.48                           | 0                  | 20.48      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#25               | 20.53                           | 0                  | 20.53      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#50               | 20.48                           | 0                  | 20.48      | 0.11     | 2.00      | Pass    |
|           |              |            | RB100#0               | 20.48                           | 0                  | 20.48      | 0.11     | 2.00      | Pass    |
|           | MCH          | QPSK       | RB1#0                 | 22.65                           | 0                  | 22.65      | 0.18     | 2.00      | Pass    |
|           |              |            | RB1#50                | 22.11                           | 0                  | 22.11      | 0.16     | 2.00      | Pass    |
|           |              |            | RB1#99                | 22.49                           | 0                  | 22.49      | 0.18     | 2.00      | Pass    |
|           |              |            | RB50#0                | 21.57                           | 0                  | 21.57      | 0.14     | 2.00      | Pass    |
|           |              |            | RB50#25               | 21.14                           | 0                  | 21.14      | 0.13     | 2.00      | Pass    |
|           |              |            | RB50#50               | 21.19                           | 0                  | 21.19      | 0.13     | 2.00      | Pass    |
|           |              |            | RB100#0               | 21.24                           | 0                  | 21.24      | 0.13     | 2.00      | Pass    |
|           |              | 16-QAM     | RB1#0                 | 21.83                           | 0                  | 21.83      | 0.15     | 2.00      | Pass    |
|           |              |            | RB1#50                | 21.57                           | 0                  | 21.57      | 0.14     | 2.00      | Pass    |
|           |              |            | RB1#99                | 21.89                           | 0                  | 21.89      | 0.15     | 2.00      | Pass    |
|           |              |            | RB50#0                | 20.54                           | 0                  | 20.54      | 0.11     | 2.00      | Pass    |
|           |              |            | RB50#25               | 19.84                           | 0                  | 19.84      | 0.10     | 2.00      | Pass    |
|           |              |            | RB50#50               | 20.26                           | 0                  | 20.26      | 0.11     | 2.00      | Pass    |
|           |              |            | RB100#0               | 20.48                           | 0                  | 20.48      | 0.11     | 2.00      | Pass    |
|           | HCH          | QPSK       | RB1#0                 | 22.76                           | 0                  | 22.76      | 0.19     | 2.00      | Pass    |
|           |              |            | RB1#50                | 21.96                           | 0                  | 21.96      | 0.16     | 2.00      | Pass    |

| Test BW          | Test Channel | Test Model | Test RB (Size#Offset) | Conducted Output AV Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (W) | Limit (W) | Verdict |
|------------------|--------------|------------|-----------------------|---------------------------------|--------------------|------------|----------|-----------|---------|
| <b>LTE BAND7</b> |              |            |                       |                                 |                    |            |          |           |         |
|                  |              |            | RB1#99                | 22.02                           | 0                  | 22.02      | 0.16     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 21.56                           | 0                  | 21.56      | 0.14     | 2.00      | Pass    |
|                  |              |            | RB50#25               | 20.88                           | 0                  | 20.88      | 0.12     | 2.00      | Pass    |
|                  |              |            | RB50#50               | 21.12                           | 0                  | 21.12      | 0.13     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 21.48                           | 0                  | 21.48      | 0.14     | 2.00      | Pass    |
|                  |              | 16-QAM     | RB1#0                 | 21.51                           | 0                  | 21.51      | 0.14     | 2.00      | Pass    |
|                  |              |            | RB1#50                | 21.54                           | 0                  | 21.54      | 0.14     | 2.00      | Pass    |
|                  |              |            | RB1#99                | 21.90                           | 0                  | 21.90      | 0.15     | 2.00      | Pass    |
|                  |              |            | RB50#0                | 19.97                           | 0                  | 19.97      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB50#25               | 20.34                           | 0                  | 20.34      | 0.11     | 2.00      | Pass    |
|                  |              |            | RB50#50               | 20.13                           | 0                  | 20.13      | 0.10     | 2.00      | Pass    |
|                  |              |            | RB100#0               | 20.49                           | 0                  | 20.49      | 0.11     | 2.00      | Pass    |

## A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM, GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document “Annex No.:BL-SZ1730238-501 Data Part 1.pdf”.

### WCDMA Test Data

| Test Band | Test Channel | Peak to Average ratio (dB) | Limit (dBm) | Refer to Plot <sup>Note2</sup> | Verdict |
|-----------|--------------|----------------------------|-------------|--------------------------------|---------|
| Band 2    | LCH          | 2.96                       | 13          | 1.1                            | Pass    |
|           | MCH          | 2.78                       | 13          | 1.2                            | Pass    |
|           | HCH          | 2.58                       | 13          | 1.3                            | Pass    |
| Band 4    | LCH          | 2.46                       | 13          | 1.4                            | Pass    |
|           | MCH          | 2.43                       | 13          | 1.5                            | Pass    |
|           | HCH          | 2.64                       | 13          | 1.6                            | Pass    |

### LTE Test Data

| Test Band  | Test Bandwidth | Test Channel | Test Model | Test RB (Size#Offset) | Peak to Average ratio (dB) | Limit (dBm) | Refer to Plot <sup>Note2</sup> | Verdict |
|------------|----------------|--------------|------------|-----------------------|----------------------------|-------------|--------------------------------|---------|
| LTE Band 2 | 20 MHz         | LCH          | QPSK       | RB1#0                 | 3.22                       | 13          | 1.7                            | Pass    |
|            |                |              |            | RB100#0               | 4.70                       | 13          | 1.8                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.00                       | 13          | 1.9                            | Pass    |
|            |                |              |            | RB100#0               | 5.65                       | 13          | 1.10                           | Pass    |
|            |                | MCH          | QPSK       | RB1#0                 | 3.36                       | 13          | 1.11                           | Pass    |
|            |                |              |            | RB100#0               | 4.52                       | 13          | 1.12                           | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.38                       | 13          | 1.13                           | Pass    |
|            |                |              |            | RB100#0               | 5.48                       | 13          | 1.14                           | Pass    |
|            |                | HCH          | QPSK       | RB1#0                 | 2.96                       | 13          | 1.15                           | Pass    |
|            |                |              |            | RB100#0               | 4.49                       | 13          | 1.16                           | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.03                       | 13          | 1.17                           | Pass    |
|            |                |              |            | RB100#0               | 5.39                       | 13          | 1.18                           | Pass    |
| LTE Band 4 | 20 MHz         | LCH          | QPSK       | RB1#0                 | 3.28                       | 13          | 1.19                           | Pass    |
|            |                |              |            | RB100#0               | 4.78                       | 13          | 1.20                           | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.29                       | 13          | 1.21                           | Pass    |
|            |                |              |            | RB100#0               | 5.77                       | 13          | 1.22                           | Pass    |
|            |                | MCH          | QPSK       | RB1#0                 | 3.74                       | 13          | 1.23                           | Pass    |
|            |                |              |            | RB100#0               | 4.67                       | 13          | 1.24                           | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.49                       | 13          | 1.25                           | Pass    |
|            |                |              |            | RB100#0               | 5.62                       | 13          | 1.26                           | Pass    |
|            |                | HCH          | QPSK       | RB1#0                 | 3.30                       | 13          | 1.27                           | Pass    |
|            |                |              |            | RB100#0               | 4.78                       | 13          | 1.28                           | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.26                       | 13          | 1.29                           | Pass    |
|            |                |              |            | RB1#0                 | 4.26                       | 13          | 1.29                           | Pass    |

| Test Band  | Test Bandwidth | Test Channel | Test Model | Test RB (Size#Offset) | Peak to Average ratio (dB) | Limit (dBm) | Refer to Plot <sup>†Note2</sup> | Verdict |
|------------|----------------|--------------|------------|-----------------------|----------------------------|-------------|---------------------------------|---------|
|            |                |              |            | RB100#0               | 5.68                       | 13          | 1.30                            | Pass    |
| LTE Band 7 | 10 MHz         | LCH          | QPSK       | RB1#0                 | 3.51                       | 13          | 1.31                            | Pass    |
|            |                |              |            | RB50#0                | 4.75                       | 13          | 1.32                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.23                       | 13          | 1.33                            | Pass    |
|            |                |              |            | RB50#0                | 5.71                       | 13          | 1.34                            | Pass    |
|            |                | MCH          | QPSK       | RB1#0                 | 3.36                       | 13          | 1.35                            | Pass    |
|            |                |              |            | RB50#0                | 4.93                       | 13          | 1.36                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.32                       | 13          | 1.37                            | Pass    |
|            |                |              |            | RB50#0                | 5.86                       | 13          | 1.38                            | Pass    |
|            |                | HCH          | QPSK       | RB1#0                 | 3.62                       | 13          | 1.39                            | Pass    |
|            |                |              |            | RB50#0                | 4.75                       | 13          | 1.40                            | Pass    |
|            |                |              | 16-QAM     | RB1#0                 | 4.67                       | 13          | 1.41                            | Pass    |
|            |                |              |            | RB50#0                | 5.62                       | 13          | 1.42                            | Pass    |

### A.3 Occupied Bandwidth

Note 1: All mode were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document “Annex No.:BL-SZ1730238-501 Data Part 2.pdf”.

#### GSM and WCDMA Mode Test Data

| Test Band       | Test Channel | Measured 99%<br>Occupied Bandwidth<br>(MHz) | Measured -26 dB<br>Occupied Bandwidth<br>(MHz) | Refer to<br>Plot <sup>Note2</sup> |
|-----------------|--------------|---------------------------------------------|------------------------------------------------|-----------------------------------|
| GSM 850         | LCH          | 0.25                                        | 0.31                                           | 1.1                               |
|                 | MCH          | 0.25                                        | 0.31                                           | 1.2                               |
|                 | HCH          | 0.24                                        | 0.31                                           | 1.3                               |
| GSM 1900        | LCH          | 0.25                                        | 0.31                                           | 1.4                               |
|                 | MCH          | 0.24                                        | 0.31                                           | 1.5                               |
|                 | HCH          | 0.25                                        | 0.31                                           | 1.6                               |
| EGPRS 850       | LCH          | 0.25                                        | 0.30                                           | 1.7                               |
|                 | MCH          | 0.25                                        | 0.31                                           | 1.8                               |
|                 | HCH          | 0.25                                        | 0.30                                           | 1.9                               |
| EGPRS 1900      | LCH          | 0.25                                        | 0.31                                           | 1.10                              |
|                 | MCH          | 0.25                                        | 0.31                                           | 1.11                              |
|                 | HCH          | 0.25                                        | 0.31                                           | 1.12                              |
| WCDMA Band<br>2 | LCH          | 4.15                                        | 4.66                                           | 1.13                              |
|                 | MCH          | 4.16                                        | 4.66                                           | 1.14                              |
|                 | HCH          | 4.16                                        | 4.68                                           | 1.15                              |
| WCDMA Band<br>4 | LCH          | 4.16                                        | 4.69                                           | 1.16                              |
|                 | MCH          | 4.16                                        | 4.69                                           | 1.17                              |
|                 | HCH          | 4.14                                        | 4.67                                           | 1.18                              |
| WCDMA Band<br>5 | LCH          | 4.16                                        | 4.69                                           | 1.19                              |
|                 | MCH          | 4.15                                        | 4.66                                           | 1.20                              |
|                 | HCH          | 4.16                                        | 4.68                                           | 1.21                              |

# LTE Mode Test Data

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB6#0                  | 1.08                                  | 1.22                                     | 1.22                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.24                                     | 1.23                           |
|           |                | MCH          | QPSK      | RB6#0                  | 1.07                                  | 1.22                                     | 1.24                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.07                                  | 1.21                                     | 1.25                           |
|           |                | HCH          | QPSK      | RB6#0                  | 1.08                                  | 1.25                                     | 1.26                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.23                                     | 1.27                           |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                 | 2.68                                  | 2.89                                     | 1.28                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.90                                     | 1.29                           |
|           |                | MCH          | QPSK      | RB15#0                 | 2.68                                  | 2.89                                     | 1.30                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.89                                     | 1.31                           |
|           |                | HCH          | QPSK      | RB15#0                 | 2.68                                  | 2.92                                     | 1.32                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.92                                     | 1.33                           |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.48                                  | 4.93                                     | 1.34                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.87                                     | 1.35                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.47                                  | 4.96                                     | 1.36                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.95                                     | 1.37                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.46                                  | 4.97                                     | 1.38                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.99                                     | 1.39                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.94                                  | 9.80                                     | 1.40                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.94                                  | 9.70                                     | 1.41                           |
|           |                | MCH          | QPSK      | RB50#0                 | 8.93                                  | 9.76                                     | 1.42                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.93                                  | 9.72                                     | 1.43                           |
|           |                | HCH          | QPSK      | RB50#0                 | 8.93                                  | 9.70                                     | 1.44                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.94                                  | 9.76                                     | 1.45                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.41                                 | 14.59                                    | 1.46                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.40                                 | 14.52                                    | 1.47                           |
|           |                | MCH          | QPSK      | RB75#0                 | 13.39                                 | 14.65                                    | 1.48                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.40                                 | 14.57                                    | 1.49                           |
|           |                | HCH          | QPSK      | RB75#0                 | 13.41                                 | 14.66                                    | 1.50                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.42                                 | 14.51                                    | 1.51                           |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.87                                 | 19.10                                    | 1.52                           |
|           |                |              | 16-QAM    | RB100#0                | 17.87                                 | 19.24                                    | 1.53                           |
|           |                | MCH          | QPSK      | RB100#0                | 17.86                                 | 19.17                                    | 1.54                           |
|           |                |              | 16-QAM    | RB100#0                | 17.88                                 | 19.35                                    | 1.55                           |
|           |                | HCH          | QPSK      | RB100#0                | 17.89                                 | 19.35                                    | 1.56                           |
|           |                |              | 16-QAM    | RB100#0                | 17.85                                 | 19.24                                    | 1.57                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 4    | 1.4 MHz        | LCH          | QPSK      | RB6#0                  | 1.07                                  | 1.22                                     | 1.58                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.08                                  | 1.24                                     | 1.59                           |
|           |                | MCH          | QPSK      | RB6#0                  | 1.08                                  | 1.23                                     | 1.60                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.07                                  | 1.21                                     | 1.61                           |
|           |                | HCH          | QPSK      | RB6#0                  | 1.08                                  | 1.21                                     | 1.62                           |
|           |                |              | 16-QAM    | RB6#0                  | 1.07                                  | 1.21                                     | 1.63                           |
|           | 3 MHz          | LCH          | QPSK      | RB15#0                 | 2.68                                  | 2.89                                     | 1.64                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.93                                     | 1.65                           |
|           |                | MCH          | QPSK      | RB15#0                 | 2.68                                  | 2.90                                     | 1.66                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.92                                     | 1.67                           |
|           |                | HCH          | QPSK      | RB15#0                 | 2.68                                  | 2.92                                     | 1.68                           |
|           |                |              | 16-QAM    | RB15#0                 | 2.68                                  | 2.89                                     | 1.69                           |
|           | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.47                                  | 4.94                                     | 1.70                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.89                                     | 1.71                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.47                                  | 4.92                                     | 1.72                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.94                                     | 1.73                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.46                                  | 4.94                                     | 1.74                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.96                                     | 1.75                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.94                                  | 9.79                                     | 1.76                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.94                                  | 9.61                                     | 1.77                           |
|           |                | MCH          | QPSK      | RB50#0                 | 8.93                                  | 9.64                                     | 1.78                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.93                                  | 9.71                                     | 1.79                           |
|           |                | HCH          | QPSK      | RB50#0                 | 8.94                                  | 9.75                                     | 1.80                           |
|           |                |              | 16-QAM    | RB50#0                 | 8.94                                  | 9.74                                     | 1.81                           |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.41                                 | 14.58                                    | 1.82                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.41                                 | 14.57                                    | 1.83                           |
|           |                | MCH          | QPSK      | RB75#0                 | 13.38                                 | 14.46                                    | 1.84                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.39                                 | 14.49                                    | 1.85                           |
|           |                | HCH          | QPSK      | RB75#0                 | 13.41                                 | 14.62                                    | 1.86                           |
|           |                |              | 16-QAM    | RB75#0                 | 13.41                                 | 14.44                                    | 1.87                           |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.87                                 | 19.11                                    | 1.88                           |
|           |                |              | 16-QAM    | RB100#0                | 17.86                                 | 19.24                                    | 1.89                           |
|           |                | MCH          | QPSK      | RB100#0                | 17.84                                 | 19.17                                    | 1.90                           |
|           |                |              | 16-QAM    | RB100#0                | 17.87                                 | 19.22                                    | 1.91                           |
|           |                | HCH          | QPSK      | RB100#0                | 17.90                                 | 19.31                                    | 1.92                           |
|           |                |              | 16-QAM    | RB100#0                | 17.87                                 | 19.39                                    | 1.93                           |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB (Size#Offset ) | Measured 99% Occupied Bandwidth (MHz) | Measured -26 dB Occupied Bandwidth (MHz) | Refer to Plot <sup>Note2</sup> |
|-----------|----------------|--------------|-----------|------------------------|---------------------------------------|------------------------------------------|--------------------------------|
| Band 7    | 5 MHz          | LCH          | QPSK      | RB25#0                 | 4.47                                  | 4.92                                     | 1.94                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.90                                     | 1.95                           |
|           |                | MCH          | QPSK      | RB25#0                 | 4.47                                  | 4.92                                     | 1.96                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.95                                     | 1.97                           |
|           |                | HCH          | QPSK      | RB25#0                 | 4.47                                  | 4.92                                     | 1.98                           |
|           |                |              | 16-QAM    | RB25#0                 | 4.47                                  | 4.96                                     | 1.99                           |
|           | 10 MHz         | LCH          | QPSK      | RB50#0                 | 8.93                                  | 9.81                                     | 1.100                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.93                                  | 9.61                                     | 1.101                          |
|           |                | MCH          | QPSK      | RB50#0                 | 8.93                                  | 9.66                                     | 1.102                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.94                                  | 9.75                                     | 1.103                          |
|           |                | HCH          | QPSK      | RB50#0                 | 8.94                                  | 9.78                                     | 1.104                          |
|           |                |              | 16-QAM    | RB50#0                 | 8.93                                  | 9.76                                     | 1.105                          |
|           | 15 MHz         | LCH          | QPSK      | RB75#0                 | 13.41                                 | 14.57                                    | 1.106                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.38                                 | 14.51                                    | 1.107                          |
|           |                | MCH          | QPSK      | RB75#0                 | 13.40                                 | 14.57                                    | 1.108                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.41                                 | 14.55                                    | 1.109                          |
|           |                | HCH          | QPSK      | RB75#0                 | 13.41                                 | 14.49                                    | 1.110                          |
|           |                |              | 16-QAM    | RB75#0                 | 13.40                                 | 14.50                                    | 1.111                          |
|           | 20 MHz         | LCH          | QPSK      | RB100#0                | 17.86                                 | 19.04                                    | 1.112                          |
|           |                |              | 16-QAM    | RB100#0                | 17.85                                 | 19.14                                    | 1.113                          |
|           |                | MCH          | QPSK      | RB100#0                | 17.88                                 | 19.25                                    | 1.114                          |
|           |                |              | 16-QAM    | RB100#0                | 17.89                                 | 19.41                                    | 1.115                          |
|           |                | HCH          | QPSK      | RB100#0                | 17.87                                 | 19.26                                    | 1.116                          |
|           |                |              | 16-QAM    | RB100#0                | 17.85                                 | 19.20                                    | 1.117                          |

#### A.4 Frequency Stability

##### GSM 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.85            | 0                | 7.72                | ±2060.5     | 1.26             | ±2091.5     | 4.13             | ±2122       | Pass    |
|                 | +5               | 5.26                |             | 3.23             |             | 0.36             |             |         |
|                 | +10              | 6.26                |             | 3.68             |             | 2.13             |             |         |
|                 | +15              | 6.39                |             | 4.78             |             | 2.74             |             |         |
|                 | +20              | 6.23                |             | 2.36             |             | 5.23             |             |         |
|                 | +25              | 6.49                |             | 4.65             |             | 4.36             |             |         |
|                 | +30              | 5.46                |             | 4.10             |             | 3.91             |             |         |
|                 | +35              | 7.26                |             | 5.17             |             | 4.00             |             |         |
|                 | +40              | 6.25                |             | 0.23             |             | 0.26             |             |         |
| 4.4             | +25              | 7.72                |             | 1.26             |             | 4.13             |             |         |
| 3.4             | +25              | 5.26                |             | 3.23             |             | 0.36             |             |         |

##### GSM 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 3.85            | 0                | 30.61               | ±4625.5     | 27.18           | ±4700.0     | 28.67             | ±4774.5     | Pass    |
|                 | +5               | 35.36               |             | 31.23           |             | 25.36             |             |         |
|                 | +10              | 26.18               |             | 29.12           |             | 27.83             |             |         |
|                 | +15              | 25.80               |             | 35.64           |             | 30.70             |             |         |
|                 | +20              | 26.23               |             | 35.12           |             | 28.36             |             |         |
|                 | +25              | 27.67               |             | 39.10           |             | 31.61             |             |         |
|                 | +30              | 29.96               |             | 37.23           |             | 34.06             |             |         |
|                 | +35              | 30.99               |             | 34.45           |             | 33.74             |             |         |
|                 | +40              | 35.97               |             | 32.54           |             | 22.92             |             |         |
| 4.4             | +25              | 30.61               |             | 27.18           |             | 28.67             |             |         |
| 3.4             | +25              | 35.36               |             | 31.23           |             | 25.36             |             |         |

### GPRS 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.85            | 0                | -1.65               | ±2060.5     | 0.00             | ±2091.5     | -3.29            | ±2122       | Pass    |
|                 | +5               | -1.23               |             | 0.33             |             | 2.36             |             |         |
|                 | +10              | 0.61                |             | 2.32             |             | 2.10             |             |         |
|                 | +15              | 2.20                |             | 2.16             |             | -0.52            |             |         |
|                 | +20              | 2.36                |             | 1.23             |             | -0.65            |             |         |
|                 | +25              | 0.91                |             | 3.23             |             | 3.00             |             |         |
|                 | +30              | 4.62                |             | -0.81            |             | 0.48             |             |         |
|                 | +35              | -0.32               |             | 1.26             |             | -0.65            |             |         |
|                 | +40              | 3.26                |             | 4.16             |             | 3.75             |             |         |
| 4.4             | +25              | -1.65               |             | 0.00             |             | -3.29            |             |         |
| 3.4             | +25              | -1.23               |             | 0.33             |             | 2.36             |             |         |

### GPRS 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 3.85            | 0                | 20.24               | ±4625.5     | 19.95           | ±4700.0     | 21.41             | ±4774.5     | Pass    |
|                 | +5               | 15.63               |             | 25.32           |             | 16.23             |             |         |
|                 | +10              | 12.91               |             | 9.69            |             | 19.79             |             |         |
|                 | +15              | 21.31               |             | 22.54           |             | 20.99             |             |         |
|                 | +20              | 20.32               |             | 19.23           |             | 18.36             |             |         |
|                 | +25              | 26.93               |             | 19.18           |             | 19.82             |             |         |
|                 | +30              | 14.08               |             | 18.73           |             | 24.63             |             |         |
|                 | +35              | 20.11               |             | 22.66           |             | 22.12             |             |         |
|                 | +40              | 17.66               |             | 25.41           |             | 22.08             |             |         |
| 4.4             | +25              | 20.24               |             | 19.95           |             | 21.41             |             |         |
| 3.4             | +25              | 15.63               |             | 25.32           |             | 16.23             |             |         |

EGPRS 850

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>824.2 MHz    |             | MCH<br>836.6 MHz |             | HCH<br>848.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.85            | 0                | 12.07               | ±2060.5     | 7.43             | ±2091.5     | 3.87             | ±2122       | Pass    |
|                 | +5               | 10.23               |             | 8.23             |             | 6.25             |             |         |
|                 | +10              | 10.85               |             | 9.78             |             | 7.43             |             |         |
|                 | +15              | 7.85                |             | 8.20             |             | 6.97             |             |         |
|                 | +20              | 5.23                |             | 8.36             |             | 7.36             |             |         |
|                 | +25              | 4.26                |             | 6.07             |             | 4.20             |             |         |
|                 | +30              | 10.78               |             | 6.36             |             | 6.33             |             |         |
|                 | +35              | 8.72                |             | 5.26             |             | 7.01             |             |         |
|                 | +40              | 9.91                |             | 6.94             |             | 5.91             |             |         |
| 4.4             | +25              | 12.07               |             | 7.43             |             | 3.87             |             |         |
| 3.4             | +25              | 10.23               |             | 8.23             |             | 6.25             |             |         |

EGPRS 1900

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1850.2 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1909.8 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
|                 |                  |                     |             |                 |             |                   |             |         |
| 3.85            | 0                | 20.53               | ±4625.5     | 18.6            | ±4700.0     | 24.18             | ±4774.5     | Pass    |
|                 | +5               | 21.36               |             | 15.36           |             | 19.32             |             |         |
|                 | +10              | 20.21               |             | 19.95           |             | 20.11             |             |         |
|                 | +15              | 18.73               |             | 25.76           |             | 20.08             |             |         |
|                 | +20              | 18.36               |             | 23.26           |             | 20.56             |             |         |
|                 | +25              | 20.05               |             | 28.83           |             | 21.15             |             |         |
|                 | +30              | 12.43               |             | 23.21           |             | 22.05             |             |         |
|                 | +35              | 7.01                |             | 14.92           |             | 14.24             |             |         |
|                 | +40              | 18.56               |             | 17.40           |             | 17.98             |             |         |
| 4.4             | +25              | 20.53               |             | 18.6            |             | 24.18             |             |         |
| 3.4             | +25              | 21.36               |             | 15.36           |             | 19.32             |             |         |

### WCDMA Band 2

| Test Conditions |                  | Frequency Deviation |             |                 |             |                   |             | Verdict |
|-----------------|------------------|---------------------|-------------|-----------------|-------------|-------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>1852.4 MHz   |             | MCH<br>1880 MHz |             | HCH<br>1907.6 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)      | Limits (Hz) | Value (Hz)        | Limits (Hz) |         |
| 3.85            | 0                | -2.19               | ±4631       | -6.02           | ±4700       | 0.85              | ±4769       | Pass    |
|                 | +5               | -3.56               |             | -3.52           |             | -1.32             |             |         |
|                 | +10              | -3.25               |             | -6.02           |             | 0.85              |             |         |
|                 | +15              | -4.84               |             | 0.09            |             | -2.71             |             |         |
|                 | +20              | -4.36               |             | -2.36           |             | -3.24             |             |         |
|                 | +25              | -5.85               |             | -3.28           |             | -2.17             |             |         |
|                 | +30              | -4.44               |             | -2.38           |             | -5.53             |             |         |
|                 | +35              | -2.42               |             | -5.52           |             | -3.40             |             |         |
|                 | +40              | -5.5                |             | -3.78           |             | -2.40             |             |         |
| 4.4             | +25              | -2.19               | ±4631       | -6.02           | ±4700       | 0.85              | ±4769       | Pass    |
| 3.4             | +25              | -3.56               |             | -3.52           |             | -1.32             |             |         |

### WCDMA Band B4

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>826.4 MHz    |             | MCH<br>836.4 MHz |             | HCH<br>846.6 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.85            | 0                | -5.22               | ±2066       | -3.88            | ±2091       | -1.05            | ±2116.5     | Pass    |
|                 | +5               | -6.23               |             | -2.36            |             | -3.56            |             |         |
|                 | +10              | -7.38               |             | -5.62            |             | -3.27            |             |         |
|                 | +15              | -7.55               |             | -4.76            |             | -4.79            |             |         |
|                 | +20              | -6.98               |             | -5.23            |             | -4.65            |             |         |
|                 | +25              | -7.72               |             | -3.30            |             | -1.03            |             |         |
|                 | +30              | -6.46               |             | -3.45            |             | -7.90            |             |         |
|                 | +35              | -6.55               |             | -3.67            |             | -4.73            |             |         |
|                 | +40              | -10.25              |             | -6.64            |             | -2.98            |             |         |
| 4.4             | +25              | -5.22               |             | -3.88            |             | -1.05            |             |         |
| 3.4             | +25              | -6.23               |             | -2.36            |             | -3.56            |             |         |

### WCDMA Band B5

| Test Conditions |                  | Frequency Deviation |             |                  |             |                  |             | Verdict |
|-----------------|------------------|---------------------|-------------|------------------|-------------|------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | LCH<br>826.4 MHz    |             | MCH<br>836.4 MHz |             | HCH<br>846.6 MHz |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) | Value (Hz)       | Limits (Hz) | Value (Hz)       | Limits (Hz) |         |
| 3.85            | 0                | -1.72               | ±2066       | -3.96            | ±2091       | -2.95            | ±2116.5     | Pass    |
|                 | +5               | -2.32               |             | -3.26            |             | -4.26            |             |         |
|                 | +10              | -1.9                |             | -2.07            |             | -3.13            |             |         |
|                 | +15              | -1.92               |             | -3.32            |             | -3.34            |             |         |
|                 | +20              | -2.36               |             | -1.65            |             | -4.02            |             |         |
|                 | +25              | -1.72               |             | -2.46            |             | -2.47            |             |         |
|                 | +30              | -2.59               |             | -1.09            |             | -4.47            |             |         |
|                 | +35              | -1.90               |             | -1.65            |             | -4.36            |             |         |
|                 | +40              | -4.90               |             | -2.51            |             | -4.46            |             |         |
| 4.4             | +25              | -1.72               |             | -3.96            |             | -2.95            |             |         |
| 3.4             | +25              | -2.32               |             | -3.26            |             | -4.26            |             |         |

### LTE Band 2 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.85            | 0                | -5.79               | ±4700       | Pass    |
|                 | +5               | -4.36               |             |         |
|                 | +10              | -3.19               |             |         |
|                 | +15              | -5.61               |             |         |
|                 | +20              | -3.65               |             |         |
|                 | +25              | -2.33               |             |         |
|                 | +30              | -3.68               |             |         |
|                 | +35              | -3.73               |             |         |
|                 | +40              | -2.02               |             |         |
| 4.4             | +25              | -5.79               |             |         |
| 3.4             | +25              | -4.36               |             |         |

### LTE Band 2 16-QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>1880 MHz     |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.85            | 0                | -4.03               | ±4700       | Pass    |
|                 | +5               | -6.32               |             |         |
|                 | +10              | -3.75               |             |         |
|                 | +15              | -4.61               |             |         |
|                 | +20              | -3.56               |             |         |
|                 | +25              | -0.67               |             |         |
|                 | +30              | -2.30               |             |         |
|                 | +35              | -3.20               |             |         |
|                 | +40              | 1.03                |             |         |
| 4.4             | +25              | -4.03               | ±4700       | Pass    |
| 3.4             | +25              | -6.32               |             |         |

### LTE Band 4 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>836.5 MHz    |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.85            | 0                | -1.93               | ±2086.25    | Pass    |
|                 | +5               | 1.23                |             |         |
|                 | +10              | -0.1                |             |         |
|                 | +15              | 1.53                |             |         |
|                 | +20              | 1.68                |             |         |
|                 | +25              | 0.34                |             |         |
|                 | +30              | 0.76                |             |         |
|                 | +35              | 1.14                |             |         |
|                 | +40              | 1.53                |             |         |
| 4.4             | +25              | -1.93               | ±2086.25    | Pass    |
| 3.4             | +25              | 1.23                |             |         |

### LTE Band 4 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>836.5 MHz    |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.85            | 0                | -0.27               | ±2086.25    | Pass    |
|                 | +5               | 1.02                |             |         |
|                 | +10              | 1.34                |             |         |
|                 | +15              | 2.50                |             |         |
|                 | +20              | -0.23               |             |         |
|                 | +25              | 0.09                |             |         |
|                 | +30              | -0.24               |             |         |
|                 | +35              | 0.34                |             |         |
|                 | +40              | 1.62                |             |         |
| 4.4             | +25              | -0.27               | ±2086.25    | Pass    |
| 3.4             | +25              | 1.02                |             |         |

### LTE Band 7 QPSK 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>836.5 MHz    |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.85            | 0                | 0.26                | ±2086.25    | Pass    |
|                 | +5               | -2.65               |             |         |
|                 | +10              | 0.30                |             |         |
|                 | +15              | -0.11               |             |         |
|                 | +20              | -3.42               |             |         |
|                 | +25              | -6.48               |             |         |
|                 | +30              | -6.52               |             |         |
|                 | +35              | -4.76               |             |         |
|                 | +40              | -5.92               |             |         |
| 4.4             | +25              | 0.26                | ±2086.25    | Pass    |
| 3.4             | +25              | -2.65               |             |         |

LTE Band 7 16QAM 10 MHz

| Test Conditions |                  | Frequency Deviation |             | Verdict |
|-----------------|------------------|---------------------|-------------|---------|
| Power (VDC)     | Temperature (°C) | MCH<br>836.5 MHz    |             |         |
|                 |                  | Value (Hz)          | Limits (Hz) |         |
| 3.85            | 0                | 1.59                | ±2086.25    | Pass    |
|                 | +5               | 2.23                |             |         |
|                 | +10              | 4.31                |             |         |
|                 | +15              | 2.66                |             |         |
|                 | +20              | -1.56               |             |         |
|                 | +25              | -0.73               |             |         |
|                 | +30              | -4.23               |             |         |
|                 | +35              | -5.55               |             |         |
|                 | +40              | -3.23               |             |         |
| 4.4             | +25              | 1.59                | ±2086.25    | Pass    |
| 3.4             | +25              | 2.23                |             |         |

## A.5 Spurious Emission at Antenna Terminals

Note 1: GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE are shown here.

Note 2: The frequency of verdict which mark by "N/A" should be ignored because they are MS carrier frequency.

Note 3: Test plots please refer to the document "Annex No.:BL-SZ1730238-501 Data Part 3.pdf".

### GSM and WCDMA Mode Test Verdict

| Test Band    | Test Channel | Refer to Plot <sup>Note3</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | MCH          | 1.2                            | Pass    |
|              | HCH          | 1.3                            | Pass    |
| GSM 1900     | LCH          | 1.4                            | Pass    |
|              | MCH          | 1.5                            | Pass    |
|              | HCH          | 1.6                            | Pass    |
| EGPRS 850    | LCH          | 1.7                            | Pass    |
|              | MCH          | 1.8                            | Pass    |
|              | HCH          | 1.9                            | Pass    |
| EGPRS 1900   | LCH          | 1.10                           | Pass    |
|              | MCH          | 1.11                           | Pass    |
|              | HCH          | 1.12                           | Pass    |
| WCDMA Band 2 | LCH          | 1.13                           | Pass    |
|              | MCH          | 1.14                           | Pass    |
|              | HCH          | 1.15                           | Pass    |
| WCDMA Band 4 | LCH          | 1.16                           | Pass    |
|              | MCH          | 1.17                           | Pass    |
|              | HCH          | 1.18                           | Pass    |
| WCDMA Band 5 | LCH          | 1.19                           | Pass    |
|              | MCH          | 1.20                           | Pass    |
|              | HCH          | 1.21                           | Pass    |

# LTE Mode Test Verdict

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 1.22                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.23                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.24                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.25                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.26                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.27                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 1.28                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.29                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.30                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.31                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.32                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.33                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 1.34                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.35                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.36                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.37                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.38                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.39                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 1.40                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.41                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.42                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.43                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.44                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.45                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 1.46                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.47                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.48                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.49                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.50                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.51                           | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 1.52                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.53                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.54                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.55                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.56                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.57                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 4    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 1.58                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.59                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.60                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.61                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.62                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.63                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 1.64                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.65                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.66                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.67                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.68                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.69                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 1.70                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.71                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.72                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.73                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.74                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.75                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 1.76                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.77                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.78                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.79                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.80                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.81                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 1.82                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.83                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.84                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.85                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.86                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.87                           | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 1.88                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.89                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.90                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.91                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.92                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.93                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 7    | 5 MHz          | LCH          | QPSK      | RB1#0                | 1.94                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.95                           | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.96                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.97                           | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.98                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.99                           | Pass    |
|           | 1 MHz          | LCH          | QPSK      | RB1#0                | 1.100                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.101                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.102                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.103                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.104                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.105                          | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 1.106                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.107                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.108                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.109                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.110                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.111                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 1.112                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.113                          | Pass    |
|           |                | MCH          | QPSK      | RB1#0                | 1.114                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.115                          | Pass    |
|           |                | HCH          | QPSK      | RB1#0                | 1.116                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.117                          | Pass    |

## A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.:BL-SZ1730238-501 Data Part 4.pdf”.

GSM and WCDMA Mode Test Verdict

| Test Band    | Test Channel | Refer to Plot <sup>Note1</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | HCH          | 1.2                            | Pass    |
| GSM 1900     | LCH          | 1.3                            | Pass    |
|              | HCH          | 1.4                            | Pass    |
| EGPRS 850    | LCH          | 1.5                            | Pass    |
|              | HCH          | 1.6                            | Pass    |
| EGPRS 1900   | LCH          | 1.7                            | Pass    |
|              | HCH          | 1.8                            | Pass    |
| WCDMA Band 2 | LCH          | 1.9                            | Pass    |
|              | HCH          | 1.10                           | Pass    |
| WCDMA Band 2 | LCH          | 1.11                           | Pass    |
|              | HCH          | 1.12                           | Pass    |
| WCDMA Band 5 | LCH          | 1.13                           | Pass    |
|              | HCH          | 1.14                           | Pass    |

# LTE Mode Test Verdict

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 1.15                           | Pass    |
|           |                |              |           | RB6#0                | 1.16                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.17                           | Pass    |
|           |                |              |           | RB6#0                | 1.18                           | Pass    |
|           |                | HCH          | QPSK      | RB1#5                | 1.19                           | Pass    |
|           |                |              |           | RB6#0                | 1.20                           | Pass    |
|           |                |              | 16-QAM    | RB1#5                | 1.21                           | Pass    |
|           |                |              |           | RB6#0                | 1.22                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 1.23                           | Pass    |
|           |                |              |           | RB15#0               | 1.24                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.25                           | Pass    |
|           |                |              |           | RB15#0               | 1.26                           | Pass    |
|           |                | HCH          | QPSK      | RB1#14               | 1.27                           | Pass    |
|           |                |              |           | RB15#0               | 1.28                           | Pass    |
|           |                |              | 16-QAM    | RB1#14               | 1.29                           | Pass    |
|           |                |              |           | RB15#0               | 1.30                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 1.31                           | Pass    |
|           |                |              |           | RB25#0               | 1.32                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.33                           | Pass    |
|           |                |              |           | RB25#0               | 1.34                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 1.35                           | Pass    |
|           |                |              |           | RB25#0               | 1.36                           | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 1.37                           | Pass    |
|           |                |              |           | RB25#0               | 1.38                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 1.39                           | Pass    |
|           |                |              |           | RB50#0               | 1.40                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.41                           | Pass    |
|           |                |              |           | RB50#0               | 1.42                           | Pass    |
|           |                | HCH          | QPSK      | RB1#49               | 1.43                           | Pass    |
|           |                |              |           | RB50#0               | 1.44                           | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 1.45                           | Pass    |
|           |                |              |           | RB50#0               | 1.46                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 1.47                           | Pass    |
|           |                |              |           | RB75#0               | 1.48                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.49                           | Pass    |
|           |                |              |           | RB75#0               | 1.50                           | Pass    |
|           |                | HCH          | QPSK      | RB1#74               | 1.51                           | Pass    |
|           |                |              |           | RB75#0               | 1.52                           | Pass    |
|           |                |              | 16-QAM    | RB1#74               | 1.53                           | Pass    |
|           |                |              |           | RB75#0               | 1.54                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 4    | 20 MHz         | LCH          | QPSK      | RB1#0                | 1.55                           | Pass    |
|           |                |              |           | RB100#0              | 1.56                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.57                           | Pass    |
|           |                |              |           | RB100#0              | 1.58                           | Pass    |
|           |                | HCH          | QPSK      | RB1#99               | 1.59                           | Pass    |
|           |                |              |           | RB100#0              | 1.60                           | Pass    |
|           |                |              | 16-QAM    | RB1#99               | 1.61                           | Pass    |
|           |                |              |           | RB100#0              | 1.62                           | Pass    |
|           | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 1.63                           | Pass    |
|           |                |              |           | RB6#0                | 1.64                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.65                           | Pass    |
|           |                |              |           | RB6#0                | 1.66                           | Pass    |
|           |                | HCH          | QPSK      | RB1#5                | 1.67                           | Pass    |
|           |                |              |           | RB6#0                | 1.68                           | Pass    |
|           |                |              | 16-QAM    | RB1#5                | 1.69                           | Pass    |
|           |                |              |           | RB6#0                | 1.70                           | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 1.71                           | Pass    |
|           |                |              |           | RB15#0               | 1.72                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.73                           | Pass    |
|           |                |              |           | RB15#0               | 1.74                           | Pass    |
|           |                | HCH          | QPSK      | RB1#14               | 1.75                           | Pass    |
|           |                |              |           | RB15#0               | 1.76                           | Pass    |
|           |                |              | 16-QAM    | RB1#14               | 1.77                           | Pass    |
|           |                |              |           | RB15#0               | 1.78                           | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 1.79                           | Pass    |
|           |                |              |           | RB25#0               | 1.80                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.81                           | Pass    |
|           |                |              |           | RB25#0               | 1.82                           | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 1.83                           | Pass    |
|           |                |              |           | RB25#0               | 1.84                           | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 1.85                           | Pass    |
|           |                |              |           | RB25#0               | 1.86                           | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 1.87                           | Pass    |
|           |                |              |           | RB50#0               | 1.88                           | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.89                           | Pass    |
|           |                |              |           | RB50#0               | 1.90                           | Pass    |
|           |                | HCH          | QPSK      | RB1#49               | 1.91                           | Pass    |
|           |                |              |           | RB50#0               | 1.92                           | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 1.93                           | Pass    |
|           |                |              |           | RB50#0               | 1.94                           | Pass    |
|           | 15 MHz         | LCH          | QPSK      | RB1#0                | 1.95                           | Pass    |
|           |                |              |           | RB75#0               | 1.96                           | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
|           |                |              | 16-QAM    | RB1#0                | 1.97                           | Pass    |
|           |                |              |           | RB75#0               | 1.98                           | Pass    |
|           |                | HCH          | QPSK      | RB1#74               | 1.99                           | Pass    |
|           |                |              |           | RB75#0               | 1.100                          | Pass    |
|           |                |              | 16-QAM    | RB1#74               | 1.101                          | Pass    |
|           |                |              |           | RB75#0               | 1.102                          | Pass    |
|           | 20 MHz         | LCH          | QPSK      | RB1#0                | 1.103                          | Pass    |
|           |                |              |           | RB100#0              | 1.104                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.105                          | Pass    |
|           |                |              |           | RB100#0              | 1.106                          | Pass    |
|           |                | HCH          | QPSK      | RB1#99               | 1.107                          | Pass    |
|           |                |              |           | RB100#0              | 1.108                          | Pass    |
|           |                |              | 16-QAM    | RB1#99               | 1.109                          | Pass    |
|           |                |              |           | RB100#0              | 1.110                          | Pass    |
| Band 7    | 1.4 MHz        | LCH          | QPSK      | RB1#0                | 1.111                          | Pass    |
|           |                |              |           | RB6#0                | 1.112                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.113                          | Pass    |
|           |                |              |           | RB6#0                | 1.114                          | Pass    |
|           |                | HCH          | QPSK      | RB1#5                | 1.115                          | Pass    |
|           |                |              |           | RB6#0                | 1.116                          | Pass    |
|           |                |              | 16-QAM    | RB1#5                | 1.117                          | Pass    |
|           |                |              |           | RB6#0                | 1.118                          | Pass    |
|           | 3 MHz          | LCH          | QPSK      | RB1#0                | 1.119                          | Pass    |
|           |                |              |           | RB15#0               | 1.120                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.121                          | Pass    |
|           |                |              |           | RB15#0               | 1.122                          | Pass    |
|           |                | HCH          | QPSK      | RB1#14               | 1.123                          | Pass    |
|           |                |              |           | RB15#0               | 1.124                          | Pass    |
|           |                |              | 16-QAM    | RB1#14               | 1.125                          | Pass    |
|           |                |              |           | RB15#0               | 1.126                          | Pass    |
|           | 5 MHz          | LCH          | QPSK      | RB1#0                | 1.127                          | Pass    |
|           |                |              |           | RB25#0               | 1.128                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.129                          | Pass    |
|           |                |              |           | RB25#0               | 1.130                          | Pass    |
|           |                | HCH          | QPSK      | RB1#24               | 1.131                          | Pass    |
|           |                |              |           | RB25#0               | 1.132                          | Pass    |
|           |                |              | 16-QAM    | RB1#24               | 1.133                          | Pass    |
|           |                |              |           | RB25#0               | 1.134                          | Pass    |
|           | 10 MHz         | LCH          | QPSK      | RB1#0                | 1.135                          | Pass    |
|           |                |              |           | RB50#0               | 1.136                          | Pass    |
|           |                |              | 16-QAM    | RB1#0                | 1.137                          | Pass    |
|           |                |              |           | RB50#0               | 1.138                          | Pass    |

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note1</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
|           |                | HCH          | QPSK      | RB1#49               | 1.139                          | Pass    |
|           |                |              |           | RB50#0               | 1.140                          | Pass    |
|           |                |              | 16-QAM    | RB1#49               | 1.141                          | Pass    |
|           |                |              |           | RB50#0               | 1.142                          | Pass    |

## A.7 Field Strength of Spurious Radiation

Note 1: GSM and EGPRS modes have been verified, only the worst data with different data bandwidth for LTE are shown here.

Note 2: The frequency of verdict which mark by "N/A" should be ignored because they are MS carrier frequency.

Note 3: Test plots please refer to the document "Annex No.:BL-SZ1730238-501 Data Part 5.pdf".

### GSM and WCDMA Mode Test Verdict

| Test Band    | Test Channel | Refer to Plot <sup>Note3</sup> | Verdict |
|--------------|--------------|--------------------------------|---------|
| GSM 850      | LCH          | 1.1                            | Pass    |
|              | MCH          | 1.2                            | Pass    |
|              | HCH          | 1.3                            | Pass    |
| GSM 1900     | LCH          | 1.4                            | Pass    |
|              | MCH          | 1.5                            | Pass    |
|              | HCH          | 1.6                            | Pass    |
| EGPRS 850    | LCH          | 1.7                            | Pass    |
|              | MCH          | 1.8                            | Pass    |
|              | HCH          | 1.9                            | Pass    |
| EGPRS 1900   | LCH          | 1.10                           | Pass    |
|              | MCH          | 1.11                           | Pass    |
|              | HCH          | 1.12                           | Pass    |
| WCDMA Band 2 | LCH          | 1.13                           | Pass    |
|              | MCH          | 1.14                           | Pass    |
|              | HCH          | 1.15                           | Pass    |
| WCDMA Band 4 | LCH          | 1.16                           | Pass    |
|              | MCH          | 1.17                           | Pass    |
|              | HCH          | 1.18                           | Pass    |
| WCDMA Band 5 | LCH          | 1.19                           | Pass    |
|              | MCH          | 1.20                           | Pass    |
|              | HCH          | 1.21                           | Pass    |

# LTE Mode Test Verdict

| Test Band | Test Bandwidth | Test Channel | Test Mode | Test RB(Size#Offset) | Refer to Plot <sup>Note3</sup> | Verdict |
|-----------|----------------|--------------|-----------|----------------------|--------------------------------|---------|
| Band 2    | 1.4 MHz        | MCH          | QPSK      | RB1#0                | 1.22                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                | 1.23                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                | 1.24                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 1.25                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                | 1.26                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                | 1.27                           | Pass    |
| Band 4    | 1.4 MHz        | MCH          | QPSK      | RB1#0                | 1.28                           | Pass    |
|           | 3 MHz          | MCH          | QPSK      | RB1#0                | 1.29                           | Pass    |
|           | 5 MHz          | MCH          | QPSK      | RB1#0                | 1.30                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 1.31                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                | 1.32                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                | 1.33                           | Pass    |
| Band 7    | 5 MHz          | MCH          | QPSK      | RB1#0                | 1.34                           | Pass    |
|           | 10 MHz         | MCH          | QPSK      | RB1#0                | 1.35                           | Pass    |
|           | 15 MHz         | MCH          | QPSK      | RB1#0                | 1.36                           | Pass    |
|           | 20 MHz         | MCH          | QPSK      | RB1#0                | 1.37                           | Pass    |

## **ANNEX B TEST SETUP PHOTOS**

Please refer to the document "BL-SZ1730238-AR.PDF".

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer to the document "BL-SZ1730238-AW.PDF".

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer to the document "BL-SZ1730238-AI.PDF".

-END OF REPORT--