



# FCC RADIO TEST REPORT

**FCC ID** : N7NWP76B  
**Equipment** : Radio Module  
**Brand Name** : Sierra Wireless  
**Model Name** : WP7611, WP7611-1, WP7611D, WP7611D-1  
**Applicant** : Sierra Wireless, ULC  
13811 Wireless Way, Richmond, BC V6V 3A4 Canada  
**Manufacturer** : Sierra Wireless, ULC  
13811 Wireless Way, Richmond, BC V6V 3A4 Canada  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R), Part 90(S)

The product was received on Jul. 09, 2026 and testing was performed from Jul. 15, 2026 to Jul. 29, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.26-2015 and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

***Sporton International Inc. Wensan Laboratory***

*No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)*



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## History of this test report

| Report No. | Version | Description             | Issue Date    |
|------------|---------|-------------------------|---------------|
| FG670102B  | 01      | Initial issue of report | Aug. 10, 2026 |
|            |         |                         |               |
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## Summary of Test Result

| Report Clause | Ref Std. Clause                                                                           | Test Items                                                                                                                      | Result (PASS/FAIL) | Remark   |
|---------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| 3.2           | §2.1046                                                                                   | Conducted Output Power                                                                                                          | Pass               | -        |
|               | §22.913 (a)(5)<br>§90.635                                                                 | Effective Radiated Power<br>(Band 5) (Band 26)                                                                                  | Pass               |          |
|               | §27.50 (b)(10)<br>§27.50 (c)(10)                                                          | Effective Radiated Power<br>(Band 12) (Band 13) (Band 71)                                                                       |                    |          |
|               | §24.232 (c)                                                                               | Equivalent Isotropic Radiated Power<br>(Band 2) (Band 25)                                                                       |                    |          |
|               | §27.50 (d)(4)                                                                             | Equivalent Isotropic Radiated Power<br>(Band 4) (Band 66)                                                                       |                    |          |
|               | §90.542 (a)(7)                                                                            | Effective Radiated Power<br>(Band 14)                                                                                           | Pass               | -        |
| -             | §24.232 (d)<br>§27.50 (d)(5)                                                              | Peak-to-Average Ratio                                                                                                           | Pass               | See Note |
| -             | §2.1049                                                                                   | Occupied Bandwidth                                                                                                              | Pass               | See Note |
| -             | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)(4)<br>§27.53 (g)<br>§27.53 (h)     | Conducted Band Edge Measurement<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 25)<br>(Band 26) (Band 66) (Band 71) | Pass               | See Note |
|               | §2.1051<br>§90.543 (e)(2)                                                                 | Conducted Band Edge Measuremen<br>(Band 14)                                                                                     |                    |          |
| -             | §2.1051<br>§90.210 (n)                                                                    | Emission Mask<br>(Band 14)                                                                                                      | Pass               | See Note |
| -             | §2.1051<br>§90.691                                                                        | Emission masks<br>(Band 26)                                                                                                     | Pass               | See Note |
| -             | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (g)<br>§27.53 (h)§90.691 | Conducted Spurious Emission<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 25)<br>(Band 26) (Band 66) (Band 71)     | Pass               | See Note |
| -             | §2.1051<br>§90.543 (e)(3)                                                                 | Conducted Spurious Emission<br>(Band 14)                                                                                        | Pass               | See Note |
| -             | §2.1055<br>§22.355<br>§24.235<br>§27.54<br>§90.539<br>(e)§90.213                          | Frequency Stability<br>Temperature & Voltage                                                                                    | Pass               | See Note |

| Report Clause | Ref Std. Clause                                                                                         | Test Items                                                                                                                 | Result (PASS/FAIL) | Remark |
|---------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------|--------|
| 4.2           | §2.1053<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (f)<br>§27.53 (g)<br>§27.53 (h)§90.691 | Radiated Spurious Emission<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 25)<br>(Band 26) (Band 66) (Band 71) | Pass               | -      |
|               | §2.1053<br>§90.543 (e)(3)<br>§90.543 (f)                                                                | Radiated Spurious Emission<br>(Band 14)                                                                                    |                    |        |

**Remark:** This report includes only the re-test results for conducted output power and radiated spurious emissions due to hardware modifications to the EUT. For detailed information regarding the hardware changes, please refer to the PED.

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Sheng Kuo**

**Report Producer: Julia Chang**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                             |  |
|---------------------------------------------|--|
| <b>General Specs</b><br>WCDMA/LTE.          |  |
| <b>Antenna Type</b><br>WWAN: Dipole Antenna |  |

| Support band and evaluated information |                                                                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supported band</b>                  | B2, B4, B5, B12, B13, B14, B25, B26, B66, B71                                                                                                                         |
| <b>Evaluated and Tested band</b>       | B2, B4, B5, B12, B13, B14, B25, B26, B66, B71                                                                                                                         |
| <b>Band covered information</b>        | RSE frequency band range covers another band when the power is worse as follows:<br>■ B26 cover B5 (Part 22H)<br>■ B25 cover B2 (Part 24)<br>■ B66 cover B4 (Part 27) |

| Max Antenna Gain information(dBi) |       |
|-----------------------------------|-------|
| Band                              | Ant 1 |
| LTE Band 2                        | 3.66  |
| LTE Band 4                        | 3.66  |
| LTE Band 5                        | 1.58  |
| LTE Band 12                       | 2.81  |
| LTE Band 13                       | 2.81  |
| LTE Band 14                       | 2.81  |
| LTE Band 25                       | 3.66  |
| LTE Band 26                       | 1.58  |
| LTE Band 66                       | 3.66  |
| LTE Band 71                       | 0.58  |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.



### 1.3 Testing Location

|                              |                                                                                                                                                  |                                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Test Site</b>             | Sporton International Inc. Wensan Laboratory                                                                                                     |                                  |
| <b>Test Site Location</b>    | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |                                  |
| <b>Test Site No.</b>         | <b>Sporton Site No.</b>                                                                                                                          |                                  |
|                              | TH05-HY                                                                                                                                          | 03CH23-HY                        |
| <b>Test Engineer</b>         | Yuki Chen                                                                                                                                        | Leo Li ,Karl Hou,and Chun Hao Lu |
| <b>Temperature (°C )</b>     | 22.2~23.1                                                                                                                                        | 19.4~21.1                        |
| <b>Relative Humidity (%)</b> | 53.2~55.3                                                                                                                                        | 44.7~65.1                        |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW3786

### 1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R), Part 90(S)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurements, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the EUT antenna orientation to 0° and 90°, and adjusting the measurement antenna orientation in accordance with the C63.26 exploratory test procedures. Only the worst-case emissions are reported in this report.

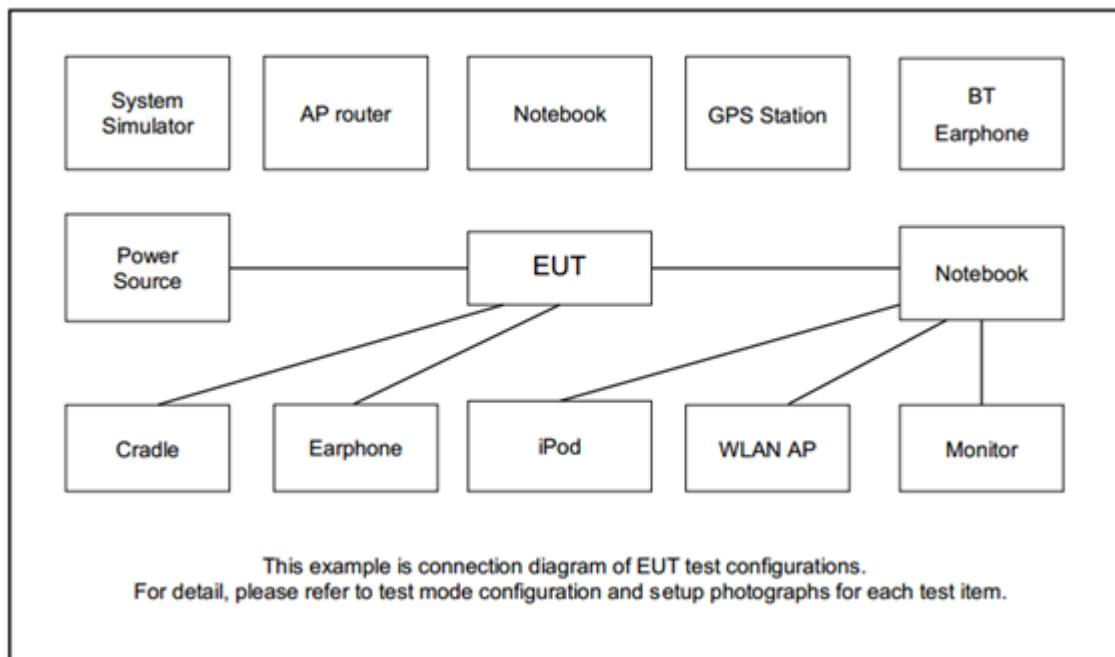
| Modulation Type | Modulation |
|-----------------|------------|
| A               | QPSK       |
| B               | 16QAM      |

| Test Item       | Modulation Type | Bandwidth | RB Size | Channel  |
|-----------------|-----------------|-----------|---------|----------|
| Conducted Power | A, B            | All       | 1RB     | L, M, H  |
| EIRP/ ERP       | A, B            | All       | 1RB     | L, M, H  |
| RSE             | A, B            | Max       | 1RB     | Remark 3 |

**Remark:**

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. The worst channel was determined based on the RSE test results in the original module report.

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment    | Brand Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|--------------|------------|-----------|--------|------------|-------------------|
| 1.   | Base Station | Anritsu    | MT8821C   | N/A    | N/A        | Unshielded, 1.8 m |



## 2.4 Frequency List of Low/Middle/High Channels

| LTE Band 2 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 18700  | 18900  | 19100   |
|                                       | Frequency              | 1860   | 1880   | 1900    |
| 15                                    | Channel                | 18675  | 18900  | 19125   |
|                                       | Frequency              | 1857.5 | 1880   | 1902.5  |
| 10                                    | Channel                | 18650  | 18900  | 19150   |
|                                       | Frequency              | 1855   | 1880   | 1905    |
| 5                                     | Channel                | 18625  | 18900  | 19175   |
|                                       | Frequency              | 1852.5 | 1880   | 1907.5  |
| 3                                     | Channel                | 18615  | 18900  | 19185   |
|                                       | Frequency              | 1851.5 | 1880   | 1908.5  |
| 1.4                                   | Channel                | 18607  | 18900  | 19193   |
|                                       | Frequency              | 1850.7 | 1880   | 1909.3  |

| LTE Band 4 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20050  | 20175  | 20300   |
|                                       | Frequency              | 1720   | 1732.5 | 1745    |
| 15                                    | Channel                | 20025  | 20175  | 20325   |
|                                       | Frequency              | 1717.5 | 1732.5 | 1747.5  |
| 10                                    | Channel                | 20000  | 20175  | 20350   |
|                                       | Frequency              | 1715   | 1732.5 | 1750    |
| 5                                     | Channel                | 19975  | 20175  | 20375   |
|                                       | Frequency              | 1712.5 | 1732.5 | 1752.5  |
| 3                                     | Channel                | 19965  | 20175  | 20385   |
|                                       | Frequency              | 1711.5 | 1732.5 | 1753.5  |
| 1.4                                   | Channel                | 19957  | 20175  | 20393   |
|                                       | Frequency              | 1710.7 | 1732.5 | 1754.3  |



| LTE Band 5 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                    | Channel                | 20450  | 20525  | 20600   |
|                                       | Frequency              | 829    | 836.5  | 844     |
| 5                                     | Channel                | 20425  | 20525  | 20625   |
|                                       | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                     | Channel                | 20415  | 20525  | 20635   |
|                                       | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                   | Channel                | 20407  | 20525  | 20643   |
|                                       | Frequency              | 824.7  | 836.5  | 848.3   |

| LTE Band 12 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23060  | 23095  | 23130   |
|                                        | Frequency              | 704    | 707.5  | 711     |
| 5                                      | Channel                | 23035  | 23095  | 23155   |
|                                        | Frequency              | 701.5  | 707.5  | 713.5   |
| 3                                      | Channel                | 23025  | 23095  | 23165   |
|                                        | Frequency              | 700.5  | 707.5  | 714.5   |
| 1.4                                    | Channel                | 23017  | 23095  | 23173   |
|                                        | Frequency              | 699.7  | 707.5  | 715.3   |

| LTE Band 13 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23230  | -       |
|                                        | Frequency              | -      | 782    | -       |
| 5                                      | Channel                | 23205  | 23230  | 23255   |
|                                        | Frequency              | 779.5  | 782    | 784.5   |



| LTE Band 14 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23330  | -       |
|                                        | Frequency              | -      | 793    | -       |
| 5                                      | Channel                | 23305  | 23330  | 23355   |
|                                        | Frequency              | 790.5  | 793    | 795.5   |
| LTE Band 25 Channel and Frequency List |                        |        |        |         |
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 26140  | 26340  | 26590   |
|                                        | Frequency              | 1860   | 1880   | 1905    |
| 15                                     | Channel                | 26115  | 26340  | 26615   |
|                                        | Frequency              | 1857.5 | 1880   | 1907.5  |
| 10                                     | Channel                | 26090  | 26340  | 26640   |
|                                        | Frequency              | 1855   | 1880   | 1910    |
| 5                                      | Channel                | 26065  | 26340  | 26665   |
|                                        | Frequency              | 1852.5 | 1880   | 1912.5  |
| 3                                      | Channel                | 26055  | 26340  | 26675   |
|                                        | Frequency              | 1851.5 | 1880   | 1913.5  |
| 1.4                                    | Channel                | 26047  | 26340  | 26683   |
|                                        | Frequency              | 1850.7 | 1880   | 1914.3  |



| LTE Band 26 Channel and Frequency List (Part22H) |                        |        |        |         |
|--------------------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                                         | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                               | Channel                | 26865  | 26915  | 26965   |
|                                                  | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                               | Channel                | 26840  | 26915  | 26990   |
|                                                  | Frequency              | 829.0  | 836.5  | 844.0   |
| 5                                                | Channel                | 26815  | 26915  | 27015   |
|                                                  | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                                | Channel                | 26805  | 26915  | 27025   |
|                                                  | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                              | Channel                | 26797  | 26915  | 27033   |
|                                                  | Frequency              | 824.7  | 836.5  | 848.3   |

| LTE Band 26 Channel and Frequency List (Part90 S) |                        |        |        |         |
|---------------------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                                          | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                                | Channel                | -      | 26740  | -       |
|                                                   | Frequency              | -      | 819    | -       |
| 5                                                 | Channel                | 26715  | 26740  | 26765   |
|                                                   | Frequency              | 816.5  | 819    | 821.5   |
| 3                                                 | Channel                | 26705  | 26740  | 26775   |
|                                                   | Frequency              | 815.5  | 819    | 822.5   |
| 1.4                                               | Channel                | 26697  | 26740  | 26783   |
|                                                   | Frequency              | 814.7  | 819    | 823.3   |

| LTE Band 26 Channel and Frequency List (Part90 S) |                        |                     |       |   |
|---------------------------------------------------|------------------------|---------------------|-------|---|
| BW [MHz]                                          | Channel/Frequency(MHz) | cross-rule channels |       |   |
| 15                                                | Channel                | 26765               | 26790 | - |
|                                                   | Frequency              | 821.5               | 824   | - |
| 10                                                | Channel                | -                   | 26790 | - |
|                                                   | Frequency              | -                   | 824   | - |
| 5                                                 | Channel                | -                   | 26790 | - |
|                                                   | Frequency              | -                   | 824   | - |
| 3                                                 | Channel                | -                   | 26790 | - |
|                                                   | Frequency              | -                   | 824   | - |
| 1.4                                               | Channel                | -                   | 26790 | - |
|                                                   | Frequency              | -                   | 824   | - |



| LTE Band 66 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 132072 | 132322 | 132572  |
|                                        | Frequency              | 1720   | 1745   | 1770    |
| 15                                     | Channel                | 132047 | 132322 | 132597  |
|                                        | Frequency              | 1717.5 | 1745   | 1772.5  |
| 10                                     | Channel                | 132022 | 132322 | 132622  |
|                                        | Frequency              | 1715   | 1745   | 1775    |
| 5                                      | Channel                | 131997 | 132322 | 132647  |
|                                        | Frequency              | 1712.5 | 1745   | 1777.5  |
| 3                                      | Channel                | 131987 | 132322 | 132657  |
|                                        | Frequency              | 1711.5 | 1745   | 1778.5  |
| 1.4                                    | Channel                | 131979 | 132322 | 132665  |
|                                        | Frequency              | 1710.7 | 1745   | 1779.3  |

| LTE Band 71 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 133222 | 133297 | 133372  |
|                                        | Frequency              | 673.0  | 680.5  | 688.0   |
| 15                                     | Channel                | 133197 | 133297 | 133397  |
|                                        | Frequency              | 670.5  | 680.5  | 690.5   |
| 10                                     | Channel                | 133172 | 133297 | 133422  |
|                                        | Frequency              | 668.0  | 680.5  | 693.0   |
| 5                                      | Channel                | 133147 | 133297 | 133447  |
|                                        | Frequency              | 665.5  | 680.5  | 695.5   |

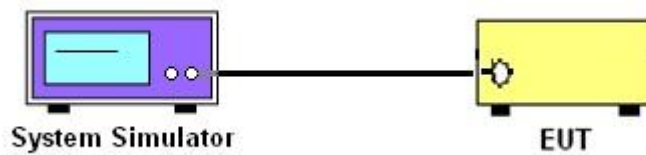
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



## **3.2 Conducted Output Power and ERP/EIRP**

### **3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement**

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.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5, Band 26 (Part 22H)

The output power of mobile transmitters must not exceed 100 Watts for LTE Band 26 (Part 90S)

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13, Band 14, Band 71

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2, Band 25

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4, Band 66

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### **3.2.2 Test Procedures**

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

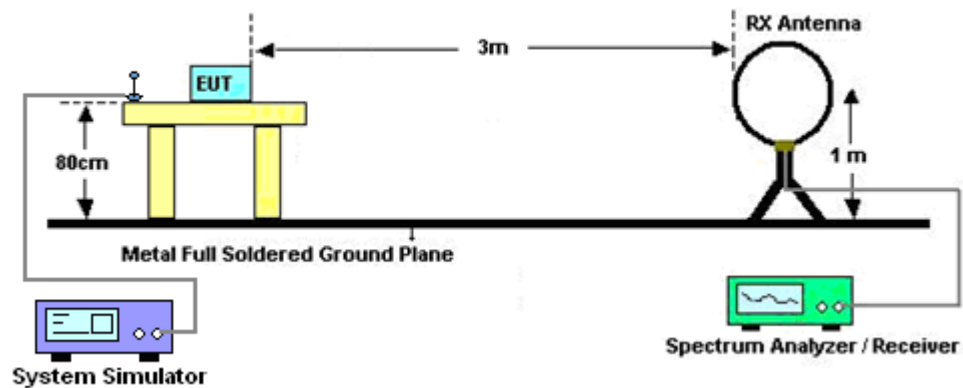
## 4 Radiated Test Items

### 4.1 Measuring Instruments

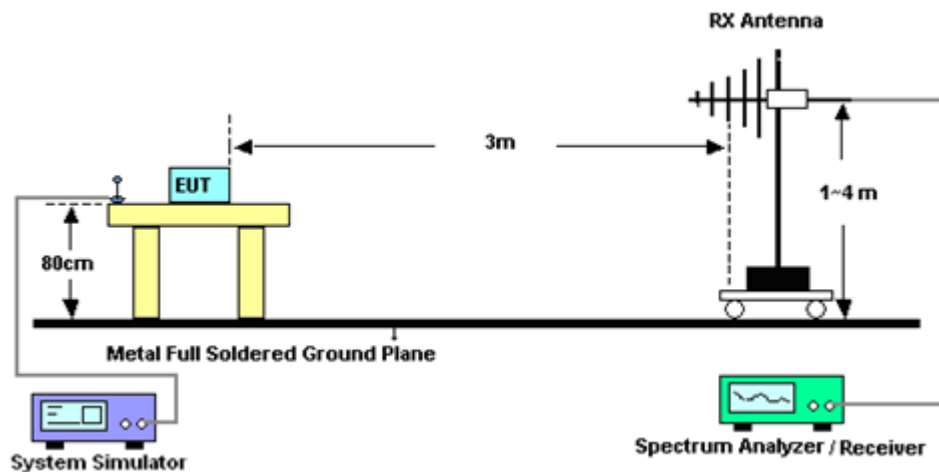
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

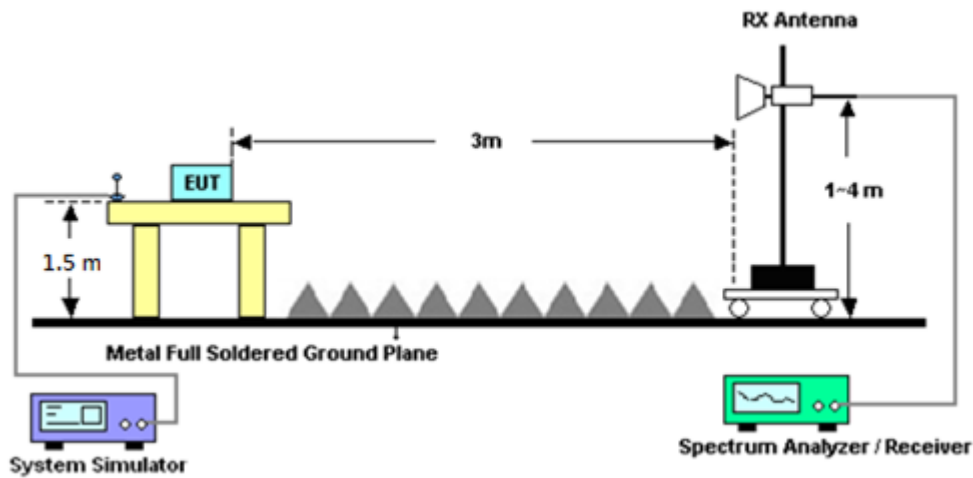
For radiated test below 30MHz



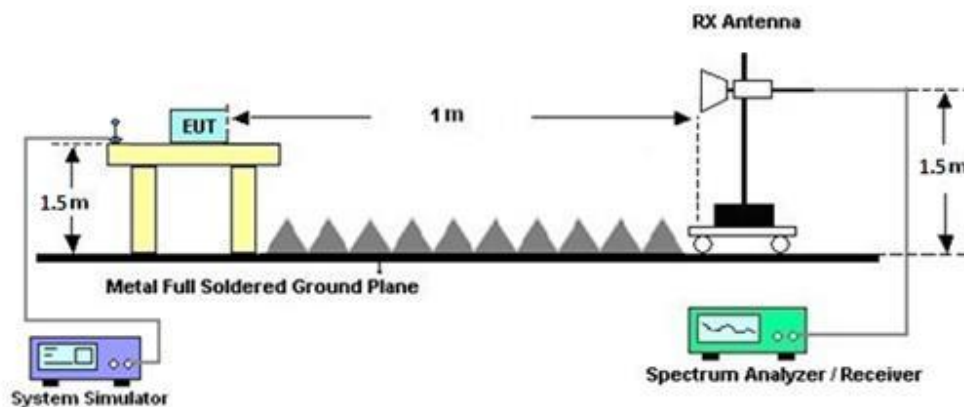
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



#### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

##### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## **4.2 Radiated Spurious Emission Measurement**

### **4.2.1 Description of Radiated Spurious Emission Measurement**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### **4.2.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)  
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

| Instrument                             | Brand Name         | Model No.                      | Serial No.                 | Characteristics                     | Calibration Date | Test Date                       | Due Date      | Remark                   |
|----------------------------------------|--------------------|--------------------------------|----------------------------|-------------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna                           | Rohde & Schwarz    | HFH2-Z2E                       | 101108                     | 9 kHz~30 MHz                        | Dec. 11, 2025    | Jul. 27, 2026~<br>Jul. 29, 2026 | Dec. 10, 2026 | Radiation<br>(03CH23-HY) |
| Bilog Antenna                          | TESEQ              | CBL 6111D &<br>00802N1D-06     | 62028 & 003                | 30MHz~1GHz                          | Nov. 26, 2025    | Jul. 27, 2026~<br>Jul. 29, 2026 | Nov. 25, 2026 | Radiation<br>(03CH23-HY) |
| Amplifier                              | EMEC               | EM01G18GA                      | 060878                     | 1GHz~18GHz                          | Sep. 26, 2025    | Jul. 27, 2026~<br>Jul. 29, 2026 | Sep. 25, 2026 | Radiation<br>(03CH23-HY) |
| Double Ridged<br>Guide Horn<br>Antenna | RFSPIN             | DRH18-E                        | KV2D06A18<br>ES            | 1GHz~18GHz                          | Nov. 05, 2025    | Jul. 27, 2026~<br>Jul. 29, 2026 | Nov. 04, 2026 | Radiation<br>(03CH23-HY) |
| Signal Analyzer                        | Keysight           | N9010B                         | MY62170337                 | 10Hz~44GHz                          | Aug. 26, 2025    | Jul. 27, 2026~<br>Jul. 29, 2026 | Aug. 25, 2026 | Radiation<br>(03CH23-HY) |
| Preamplifier                           | EMEC               | EM18G40G                       | 060872                     | 18GHz~40GHz                         | Oct. 02, 2025    | Jul. 27, 2026~<br>Jul. 29, 2026 | Oct. 01, 2026 | Radiation<br>(03CH23-HY) |
| Horn Antenna                           | SCHWARZBE<br>CK    | BBHA 9170                      | 00994                      | 18GHz~40GHz                         | Jan. 23, 2026    | Jul. 27, 2026~<br>Jul. 29, 2026 | Jan. 22, 2027 | Radiation<br>(03CH23-HY) |
| Hygrometer                             | TECPEL             | DTM-303A                       | TP210001                   | N/A                                 | Nov. 06, 2025    | Jul. 27, 2026~<br>Jul. 29, 2026 | Nov. 05, 2026 | Radiation<br>(03CH23-HY) |
| Controller                             | EMEC               | EM1000                         | N/A                        | Control Turn<br>table & Ant Mast    | N/A              | Jul. 27, 2026~<br>Jul. 29, 2026 | N/A           | Radiation<br>(03CH23-HY) |
| Antenna Mast                           | ChainTek           | MBS-520-1                      | N/A                        | 1m~4m                               | N/A              | Jul. 27, 2026~<br>Jul. 29, 2026 | N/A           | Radiation<br>(03CH23-HY) |
| Turn Table                             | ChainTek           | T-200-S-1                      | N/A                        | 0~360 Degree                        | N/A              | Jul. 27, 2026~<br>Jul. 29, 2026 | N/A           | Radiation<br>(03CH23-HY) |
| Software                               | Audix              | E3<br>6.09824_2019<br>122      | RK-002348                  | N/A                                 | N/A              | Jul. 27, 2026~<br>Jul. 29, 2026 | N/A           | Radiation<br>(03CH23-HY) |
| RF Cable                               | HUBER +<br>SUHNER  | SUCOFLEX<br>102                | 805139/2                   | 9kHz~30MHz                          | Mar. 04, 2026    | Jul. 27, 2026~<br>Jul. 29, 2026 | Mar. 03, 2027 | Radiation<br>(03CH23-HY) |
| RF Cable                               | HUBER +<br>SUHNER  | SUCOFLEX<br>102                | 804395/2                   | 30MHz~40GHz                         | Nov. 25, 2025    | Jul. 27, 2026~<br>Jul. 29, 2026 | Nov. 24, 2026 | Radiation<br>(03CH23-HY) |
| RF Cable                               | EMC                | EMC101Y                        | 231115/2311<br>19/25104238 | 30MHz~40GHz                         | May. 11, 2026    | Jul. 27, 2026~<br>Jul. 29, 2026 | May. 10, 2027 | Radiation<br>(03CH23-HY) |
| Radio Communicatio<br>n Analyzer       | Anritsu            | MT8821C                        | 6262025341                 | LTE FDD/TDD<br>LTE-2CC<br>ULCA/DLCA | Sep. 16, 2025    | Jul. 15, 2026                   | Sep. 15, 2026 | Conducted<br>(TH05-HY)   |
| DC Power<br>Supply                     | GW Instek          | GPE-2323                       | GET861546                  | 0V~64V ; 0A~6A                      | Jun. 04, 2026    | Jul. 15, 2026                   | Jun. 03, 2027 | Conducted<br>(TH05-HY)   |
| Spectrum<br>Analyzer                   | Rohde &<br>Schwarz | FSV40                          | 101907                     | 10Hz~40GHz                          | Aug. 25, 2025    | Jul. 15, 2026                   | Aug. 24, 2026 | Conducted<br>(TH05-HY)   |
| Thermal<br>Chamber                     | ESPEC              | SU-241                         | 92003713                   | -30℃ ~95℃                           | Feb. 23, 2026    | Jul. 15, 2026                   | Feb. 22, 2027 | Conducted<br>(TH05-HY)   |
| Power divider                          | MVE                | MVE8283                        | #Z                         | 0.009MHz-18G<br>Hz                  | Oct. 16, 2025    | Jul. 15, 2026                   | Oct. 15, 2026 | Conducted<br>(TH05-HY)   |
| Power Divider                          | MVE                | MVE8283                        | F201918                    | 9KHz~40GHz                          | Dec. 31, 2025    | Jul. 15, 2026                   | Dec. 30, 2026 | Conducted<br>(TH05-HY)   |
| Software                               | Sporton            | LTE<br>Conducted<br>Test Tools | N/A                        | Conducted Test<br>Item              | N/A              | Jul. 15, 2026                   | N/A           | Conducted<br>(TH05-HY)   |
| Hygrometer                             | TECPEL             | DTM-303B                       | TP200886                   | -10 ~ 50℃ / 20<br>~ 95%RH           | Mar. 04, 2026    | Jul. 15, 2026                   | Mar. 03, 2027 | Conducted<br>(TH05-HY)   |



## 6 Measurement Uncertainty

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

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 6.7 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.2 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.8 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.7 dB |
|-------------------------------------------------------------------------|--------|

## Appendix A. Test Results of Conducted Test

### Conducted Output Power (Average power and ERP/EIRP)

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 22.60  | 22.34  | 22.23   | 26.26      | 0.4227   |
| 20                                                         | 1         | 0         | 16-QAM | 21.55  | 21.48  | 21.40   | 25.21      | 0.3319   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1         | 0         | QPSK   | 22.45  | 22.59  | 22.24   | 26.25      | 0.4217   |
| 15                                                         | 1         | 0         | 16-QAM | 21.68  | 21.54  | 21.31   | 25.34      | 0.3420   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1         | 0         | QPSK   | 22.56  | 22.52  | 22.33   | 26.22      | 0.4188   |
| 10                                                         | 1         | 0         | 16-QAM | 21.70  | 21.61  | 21.46   | 25.36      | 0.3436   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1         | 0         | QPSK   | 22.59  | 22.47  | 22.43   | 26.25      | 0.4217   |
| 5                                                          | 1         | 0         | 16-QAM | 21.52  | 21.41  | 21.31   | 25.18      | 0.3296   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                          | 1         | 0         | QPSK   | 22.48  | 22.45  | 22.45   | 26.14      | 0.4111   |
| 3                                                          | 1         | 0         | 16-QAM | 21.49  | 21.39  | 21.57   | 25.23      | 0.3334   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                        | 1         | 0         | QPSK   | 22.46  | 22.41  | 22.27   | 26.12      | 0.4093   |
| 1.4                                                        | 1         | 0         | 16-QAM | 21.53  | 21.41  | 21.49   | 25.19      | 0.3304   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 22.64  | 22.47  | 22.67   | 26.33      | 0.4295   |
| 20                                                         | 1         | 0         | 16-QAM | 21.70  | 21.56  | 21.57   | 25.36      | 0.3436   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1         | 0         | QPSK   | 22.22  | 22.21  | 22.50   | 26.16      | 0.4130   |
| 15                                                         | 1         | 0         | 16-QAM | 21.35  | 21.39  | 21.57   | 25.23      | 0.3334   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1         | 0         | QPSK   | 22.23  | 22.07  | 22.33   | 25.99      | 0.3972   |
| 10                                                         | 1         | 0         | 16-QAM | 21.24  | 21.30  | 21.29   | 24.96      | 0.3133   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1         | 0         | QPSK   | 22.32  | 22.32  | 22.49   | 26.15      | 0.4121   |
| 5                                                          | 1         | 0         | 16-QAM | 21.38  | 21.38  | 21.42   | 25.08      | 0.3221   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                          | 1         | 0         | QPSK   | 22.54  | 22.38  | 22.50   | 26.20      | 0.4169   |
| 3                                                          | 1         | 0         | 16-QAM | 21.49  | 21.32  | 21.45   | 25.15      | 0.3273   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                        | 1         | 0         | QPSK   | 22.50  | 22.46  | 22.66   | 26.32      | 0.4285   |
| 1.4                                                        | 1         | 0         | 16-QAM | 21.36  | 21.80  | 21.59   | 25.46      | 0.3516   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                         | 1        | 0         | QPSK   | 22.62  | 22.56  | 22.33   | 22.05     | 0.1603  |
| 10                                                         | 1        | 0         | 16-QAM | 21.76  | 21.75  | 21.71   | 21.19     | 0.1315  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                          | 1        | 0         | QPSK   | 22.40  | 22.31  | 22.12   | 21.83     | 0.1524  |
| 5                                                          | 1        | 0         | 16-QAM | 21.45  | 21.63  | 21.15   | 21.06     | 0.1276  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                          | 1        | 0         | QPSK   | 22.43  | 22.39  | 22.39   | 21.86     | 0.1535  |
| 3                                                          | 1        | 0         | 16-QAM | 21.61  | 21.43  | 21.82   | 21.25     | 0.1334  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                        | 1        | 0         | QPSK   | 22.43  | 22.47  | 22.46   | 21.90     | 0.1549  |
| 1.4                                                        | 1        | 0         | 16-QAM | 21.66  | 21.30  | 21.51   | 21.09     | 0.1285  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 2.81 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 22.62  | 22.59  | 22.60   | 23.28     | 0.2128  |
| 10                                                          | 1        | 0         | 16-QAM | 21.51  | 21.45  | 21.31   | 22.17     | 0.1648  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 2.81 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.38  | 22.30  | 22.07   | 23.04     | 0.2014  |
| 5                                                           | 1        | 0         | 16-QAM | 21.41  | 21.59  | 21.28   | 22.25     | 0.1679  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 2.81 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                           | 1        | 0         | QPSK   | 22.35  | 22.49  | 22.32   | 23.15     | 0.2065  |
| 3                                                           | 1        | 0         | 16-QAM | 21.68  | 21.83  | 21.39   | 22.49     | 0.1774  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 2.81 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                         | 1        | 0         | QPSK   | 22.36  | 22.56  | 22.28   | 23.22     | 0.2099  |
| 1.4                                                         | 1        | 0         | 16-QAM | 21.42  | 21.57  | 21.41   | 22.23     | 0.1671  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 2.81 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | -      | 22.24  | -       | 22.90     | 0.1950  |
| 10                                                          | 1        | 0         | 16-QAM | -      | 21.33  | -       | 21.99     | 0.1581  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 2.81 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.08  | 22.16  | 22.19   | 22.85     | 0.1928  |
| 5                                                           | 1        | 0         | 16-QAM | 21.20  | 21.20  | 21.24   | 21.90     | 0.1549  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 14 Maximum Average Power [dBm] (GT - LC = 2.81 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | -      | 22.33  | -       | 22.99     | 0.1991  |
| 10                                                          | 1        | 0         | 16-QAM | -      | 21.57  | -       | 22.23     | 0.1671  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 14 Maximum Average Power [dBm] (GT - LC = 2.81 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.23  | 22.32  | 22.05   | 22.98     | 0.1986  |
| 5                                                           | 1        | 0         | 16-QAM | 21.31  | 21.43  | 21.20   | 22.09     | 0.1618  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                          | 1         | 0         | QPSK   | 22.12  | 22.23  | 22.35   | 26.01      | 0.3990   |
| 20                                                          | 1         | 0         | 16-QAM | 21.23  | 21.09  | 21.23   | 24.89      | 0.3083   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                          | 1         | 0         | QPSK   | 22.04  | 22.13  | 22.24   | 25.90      | 0.3890   |
| 15                                                          | 1         | 0         | 16-QAM | 21.12  | 21.29  | 21.21   | 24.95      | 0.3126   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                          | 1         | 0         | QPSK   | 22.12  | 22.08  | 22.19   | 25.85      | 0.3846   |
| 10                                                          | 1         | 0         | 16-QAM | 21.17  | 21.39  | 21.09   | 25.05      | 0.3199   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                           | 1         | 0         | QPSK   | 22.30  | 22.10  | 22.01   | 25.96      | 0.3945   |
| 5                                                           | 1         | 0         | 16-QAM | 21.12  | 21.05  | 21.52   | 25.18      | 0.3296   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                           | 1         | 0         | QPSK   | 22.28  | 22.22  | 22.15   | 25.94      | 0.3926   |
| 3                                                           | 1         | 0         | 16-QAM | 21.30  | 21.21  | 21.02   | 24.96      | 0.3133   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                         | 1         | 0         | QPSK   | 22.21  | 22.27  | 22.06   | 25.93      | 0.3917   |
| 1.4                                                         | 1         | 0         | 16-QAM | 21.19  | 21.30  | 21.09   | 24.96      | 0.3133   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                                  | 1        | 0         | QPSK   | 22.51  | 22.41  | 22.57   | 22.00     | 0.1585  |
| 15                                                                  | 1        | 0         | 16-QAM | 21.23  | 21.38  | 21.50   | 20.93     | 0.1239  |
| Limit                                                               | ERP < 7W |           |        | Result |        |         | Pass      |         |

| Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                                  | 1        | 0         | QPSK   | 22.42  | 22.37  | 22.47   | 21.90     | 0.1549  |
| 10                                                                  | 1        | 0         | 16-QAM | 21.12  | 21.08  | 21.23   | 20.66     | 0.1164  |
| Limit                                                               | ERP < 7W |           |        | Result |        |         | Pass      |         |

| Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                                   | 1        | 0         | QPSK   | 22.38  | 22.22  | 22.19   | 21.81     | 0.1517  |
| 5                                                                   | 1        | 0         | 16-QAM | 21.33  | 21.28  | 21.27   | 20.76     | 0.1191  |
| Limit                                                               | ERP < 7W |           |        | Result |        |         | Pass      |         |

| Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                                   | 1        | 0         | QPSK   | 22.33  | 22.32  | 22.34   | 21.77     | 0.1503  |
| 3                                                                   | 1        | 0         | 16-QAM | 21.32  | 21.44  | 21.42   | 20.87     | 0.1222  |
| Limit                                                               | ERP < 7W |           |        | Result |        |         | Pass      |         |

| Part22H LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                                 | 1        | 0         | QPSK   | 22.03  | 22.02  | 22.00   | 21.46     | 0.1400  |
| 1.4                                                                 | 1        | 0         | 16-QAM | 21.25  | 21.28  | 21.21   | 20.71     | 0.1178  |
| Limit                                                               | ERP < 7W |           |        | Result |        |         | Pass      |         |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |            |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|------------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size    | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                                  | 1          | 0         | QPSK   | 22.39  | -      | -       | 21.82     | 0.1521  |
| 15                                                                  | 1          | 0         | 16-QAM | 21.33  | -      | -       | 20.76     | 0.1191  |
| Limit                                                               | ERP < 100W |           |        | Result |        |         | Pass      |         |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |            |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|------------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size    | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                                  | 1          | 0         | QPSK   | -      | 22.49  | -       | 21.92     | 0.1556  |
| 10                                                                  | 1          | 0         | 16-QAM | -      | 21.17  | -       | 20.60     | 0.1148  |
| Limit                                                               | ERP < 100W |           |        | Result |        |         | Pass      |         |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |            |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|------------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size    | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                                   | 1          | 0         | QPSK   | 22.02  | 22.07  | 22.15   | 21.58     | 0.1439  |
| 5                                                                   | 1          | 0         | 16-QAM | 21.16  | 21.15  | 21.38   | 20.81     | 0.1205  |
| Limit                                                               | ERP < 100W |           |        | Result |        |         | Pass      |         |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |            |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|------------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size    | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                                   | 1          | 0         | QPSK   | 22.16  | 22.31  | 22.32   | 21.75     | 0.1496  |
| 3                                                                   | 1          | 0         | 16-QAM | 21.29  | 21.41  | 21.40   | 20.84     | 0.1213  |
| Limit                                                               | ERP < 100W |           |        | Result |        |         | Pass      |         |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = 1.58 dB) |            |           |        |        |        |         |           |         |
|---------------------------------------------------------------------|------------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                            | RB Size    | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                                 | 1          | 0         | QPSK   | 22.02  | 21.86  | 21.87   | 21.45     | 0.1396  |
| 1.4                                                                 | 1          | 0         | 16-QAM | 21.01  | 21.21  | 21.16   | 20.64     | 0.1159  |
| Limit                                                               | ERP < 100W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                             | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                                   | 1        | 0         | QPSK   | -      | 22.66  | -       | 22.09     | 0.1618  |
| 15                                                                   | 1        | 0         | 16-QAM | -      | 21.34  | -       | 20.77     | 0.1194  |
| Limit                                                                | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                             | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                                   | 1        | 0         | QPSK   | -      | 22.40  | -       | 21.83     | 0.1524  |
| 10                                                                   | 1        | 0         | 16-QAM | -      | 21.37  | -       | 20.80     | 0.1202  |
| Limit                                                                | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                             | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                                    | 1        | 0         | QPSK   | -      | 22.51  | -       | 21.94     | 0.1563  |
| 5                                                                    | 1        | 0         | 16-QAM | -      | 21.40  | -       | 20.83     | 0.1211  |
| Limit                                                                | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                             | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                                    | 1        | 0         | QPSK   | -      | 22.44  | -       | 21.87     | 0.1538  |
| 3                                                                    | 1        | 0         | 16-QAM | -      | 21.50  | -       | 20.93     | 0.1239  |
| Limit                                                                | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = 1.58 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                             | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                                  | 1        | 0         | QPSK   | -      | 22.10  | -       | 21.53     | 0.1422  |
| 1.4                                                                  | 1        | 0         | 16-QAM | -      | 21.17  | -       | 20.60     | 0.1148  |
| Limit                                                                | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                          | 1         | 0         | QPSK   | 22.29  | 22.58  | 22.25   | 26.24      | 0.4207   |
| 20                                                          | 1         | 0         | 16-QAM | 21.25  | 21.52  | 21.38   | 25.18      | 0.3296   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                          | 1         | 0         | QPSK   | 22.13  | 22.50  | 22.32   | 26.16      | 0.4130   |
| 15                                                          | 1         | 0         | 16-QAM | 21.42  | 21.63  | 21.50   | 25.29      | 0.3381   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                          | 1         | 0         | QPSK   | 22.14  | 22.51  | 22.23   | 26.17      | 0.4140   |
| 10                                                          | 1         | 0         | 16-QAM | 21.27  | 21.74  | 21.46   | 25.40      | 0.3467   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                           | 1         | 0         | QPSK   | 22.20  | 22.53  | 22.26   | 26.19      | 0.4159   |
| 5                                                           | 1         | 0         | 16-QAM | 21.10  | 21.47  | 21.33   | 25.13      | 0.3258   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                           | 1         | 0         | QPSK   | 22.20  | 22.53  | 22.26   | 26.19      | 0.4159   |
| 3                                                           | 1         | 0         | 16-QAM | 21.10  | 21.47  | 21.33   | 25.13      | 0.3258   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.66 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                         | 1         | 0         | QPSK   | 22.39  | 22.54  | 22.48   | 26.20      | 0.4169   |
| 1.4                                                         | 1         | 0         | 16-QAM | 21.05  | 21.28  | 21.41   | 25.07      | 0.3214   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 0.58 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 20                                                          | 1        | 0         | QPSK   | 22.28  | 22.23  | 22.13   | 20.71     | 0.1178  |
| 20                                                          | 1        | 0         | 16-QAM | 21.11  | 21.21  | 21.06   | 19.64     | 0.0920  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 0.58 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                          | 1        | 0         | QPSK   | 22.21  | 22.02  | 22.16   | 20.64     | 0.1159  |
| 15                                                          | 1        | 0         | 16-QAM | 21.28  | 21.19  | 21.33   | 19.76     | 0.0946  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 0.58 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 22.19  | 22.22  | 22.13   | 20.65     | 0.1161  |
| 10                                                          | 1        | 0         | 16-QAM | 21.35  | 21.14  | 21.19   | 19.78     | 0.0951  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 0.58 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.12  | 22.10  | 22.22   | 20.65     | 0.1161  |
| 5                                                           | 1        | 0         | 16-QAM | 21.05  | 21.21  | 21.28   | 19.71     | 0.0935  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



## Appendix B. Test Results of Radiated Test

### B1.Summary of each worse mode

| Mode | Band    | Part     | Ch | Freq (MHz) | Level (dBm) | Det | Ant Factor (dB) | Amp/Cbl (dB) | Filter (dB) | EIRPCF (dB) | Reading (dBuV) | Limit (dBm) | Margin (dB) | Pol | Ant |
|------|---------|----------|----|------------|-------------|-----|-----------------|--------------|-------------|-------------|----------------|-------------|-------------|-----|-----|
| 2    | LTE B26 | Part 22H | M  | 1670       | -45.41      | RMS | 24.60           | -25.06       | 1.29        | -95.23      | 48.99          | -13.00      | -32.41      | H   | 1   |
| 2    | LTE B25 | Part 24E | M  | 3751       | -45.10      | RMS | 30.00           | -23.52       | 1.72        | -95.23      | 41.93          | -13.00      | -32.10      | V   | 1   |
| 1    | LTE B13 | Part 27F | M  | 1555       | -38.81      | RMS | 24.15           | -25.17       | 1.34        | -95.23      | 56.10          | -13.00      | -25.81      | V   | 1   |
| 1    | LTE B71 | Part 27N | H  | 1377       | -39.21      | RMS | 24.37           | -25.42       | 1.61        | -95.23      | 55.46          | -13.00      | -26.21      | V   | 1   |
| 1    | LTE B12 | Part 27H | H  | 1429       | -38.12      | RMS | 24.50           | -25.33       | 1.52        | -95.23      | 56.42          | -13.00      | -25.12      | H   | 1   |
| 2    | LTE B66 | Part 27L | H  | 3541       | -43.84      | RMS | 28.85           | -23.44       | 1.78        | -95.23      | 44.20          | -13.00      | -30.84      | V   | 1   |
| 1    | LTE B14 | Part 90R | M  | 1577       | -45.10      | RMS | 24.27           | -25.15       | 1.31        | -95.23      | 49.70          | -42.15      | -2.95       | V   | 1   |
| 1    | LTE B26 | Part 90S | H  | 1639       | -45.99      | RMS | 24.60           | -25.09       | 1.29        | -95.23      | 48.44          | -13.00      | -32.99      | H   | 1   |

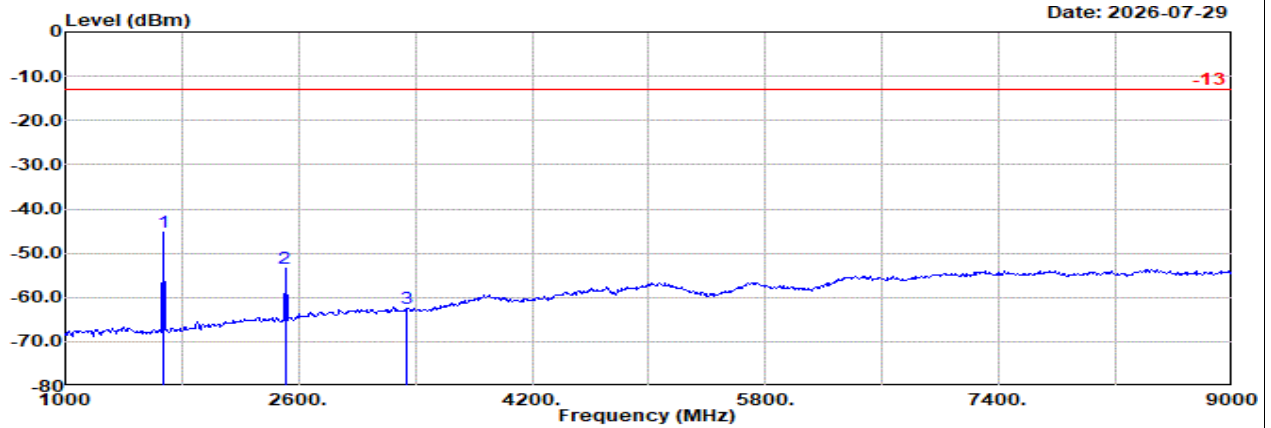


Ant. 1

Part 22H Mode 2

LTE B26 3M Ch26915 1RB0 16QAM

M

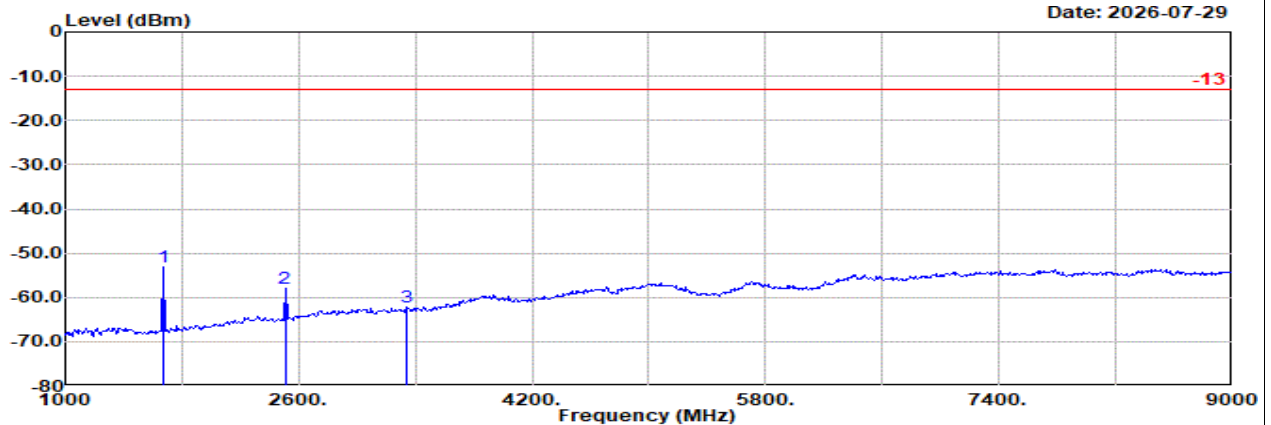


Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Horizontal

: LTE Band 26 3M Ch26915 1RB0 16QAM

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb |        | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|-------------|--------------|----------|------------|--------|--------|--------|-------------|--------|--------|------------|
|   |             |              |          | Factor     | 1      |        |        |             |        |        |            |
|   |             |              |          | dB/m       | dB     | dB     | dB     | dBuV        | dBm    | dB     |            |
| 1 | 1670.00     | -45.41       | RMS      | 24.60      | -25.06 | 1.29   | -95.23 | 48.99       | -13.00 | -32.41 | Horizontal |
| 2 | 2506.00     | -53.42       | RMS      | 26.74      | -24.23 | 1.37   | -95.23 | 37.93       | -13.00 | -40.42 | Horizontal |
| 3 | 3341.00     | -62.60       | RMS      | 28.36      | -23.49 | 1.44   | -95.23 | 26.32       | -13.00 | -49.60 | Horizontal |



Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Vertical

: LTE Band 26 3M Ch26915 1RB0 16QAM

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb |        | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|-------------|--------------|----------|------------|--------|--------|--------|-------------|--------|--------|----------|
|   |             |              |          | Factor     | 1      |        |        |             |        |        |          |
|   |             |              |          | dB/m       | dB     | dB     | dB     | dBuV        | dBm    | dB     |          |
| 1 | 1670.00     | -53.21       | RMS      | 24.60      | -25.06 | 1.29   | -95.23 | 41.19       | -13.00 | -40.21 | Vertical |
| 2 | 2506.00     | -58.02       | RMS      | 26.74      | -24.23 | 1.37   | -95.23 | 33.33       | -13.00 | -45.02 | Vertical |
| 3 | 3341.00     | -62.30       | RMS      | 28.36      | -23.49 | 1.44   | -95.23 | 26.62       | -13.00 | -49.30 | Vertical |

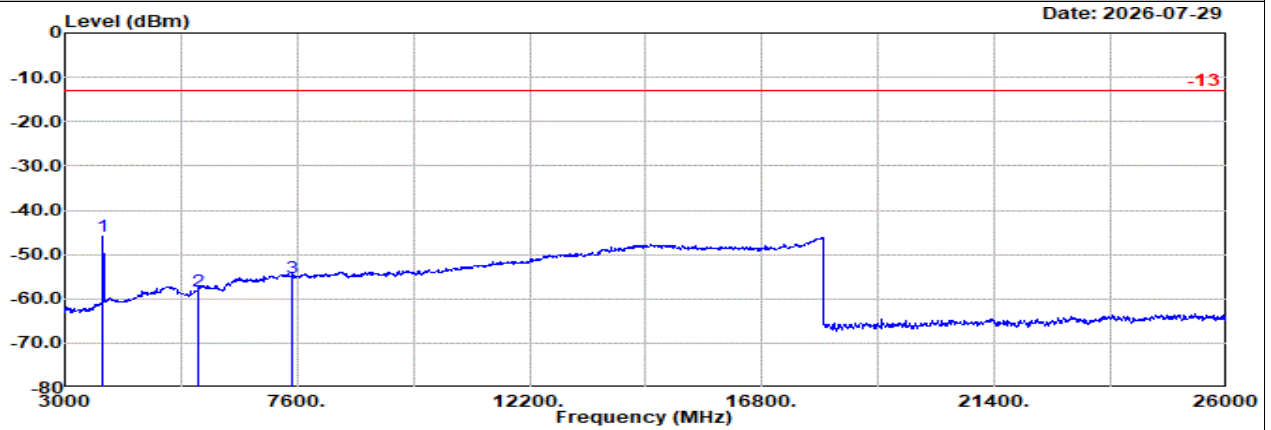


Ant. 1

Part 24E Mode 2

LTE B25 10M Ch26340 1RB0 QPSK

M

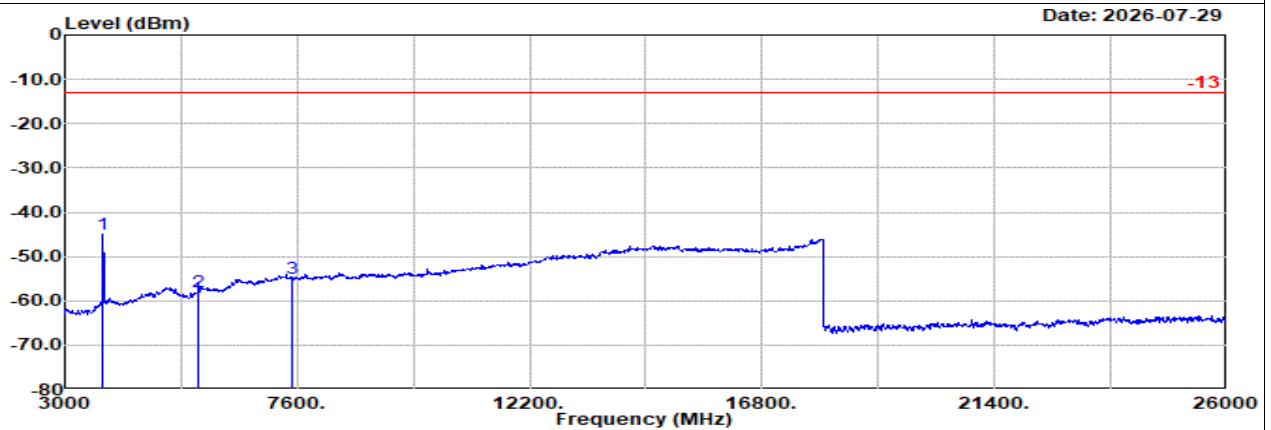


Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Horizontal

: LTE Band 25 10M Ch26340 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        |        |        | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|-------------------|--------|--------|--------|--------|--------|--------|------------|
|   |         |        |          | Factor            | 1      | EIRPCF |        | g      |        |        |            |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV   | dBm    | dB     |            |
| 1 | 3751.00 | -45.99 | RMS      | 30.00             | -23.52 | 1.72   | -95.23 | 41.04  | -13.00 | -32.99 | Horizontal |
| 2 | 5626.00 | -58.26 | RMS      | 33.11             | -22.29 | 1.96   | -95.23 | 24.19  | -13.00 | -45.26 | Horizontal |
| 3 | 7502.00 | -55.25 | RMS      | 36.80             | -22.53 | 1.93   | -95.23 | 23.78  | -13.00 | -42.25 | Horizontal |



Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Vertical

: LTE Band 25 10M Ch26340 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant Amp\Cb Filter |        |        |        | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|-------------------|--------|--------|--------|--------|--------|--------|----------|
|   |         |        |          | Factor            | 1      | EIRPCF |        | g      |        |        |          |
|   | MHz     | dBm    |          | dB/m              | dB     | dB     | dB     | dBuV   | dBm    | dB     |          |
| 1 | 3751.00 | -45.10 | RMS      | 30.00             | -23.52 | 1.72   | -95.23 | 41.93  | -13.00 | -32.10 | Vertical |
| 2 | 5626.00 | -57.94 | RMS      | 33.11             | -22.29 | 1.96   | -95.23 | 24.51  | -13.00 | -44.94 | Vertical |
| 3 | 7502.00 | -55.02 | RMS      | 36.80             | -22.53 | 1.93   | -95.23 | 24.01  | -13.00 | -42.02 | Vertical |

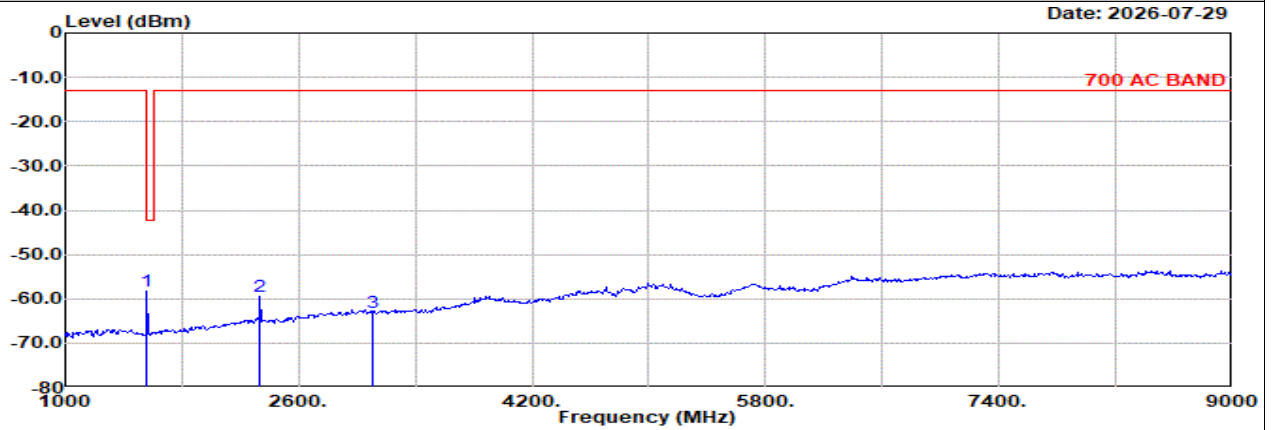


## Ant. 1

## Part 27F Mode 1

## LTE B13 10M Ch23230 1RB0 16QAM

## M

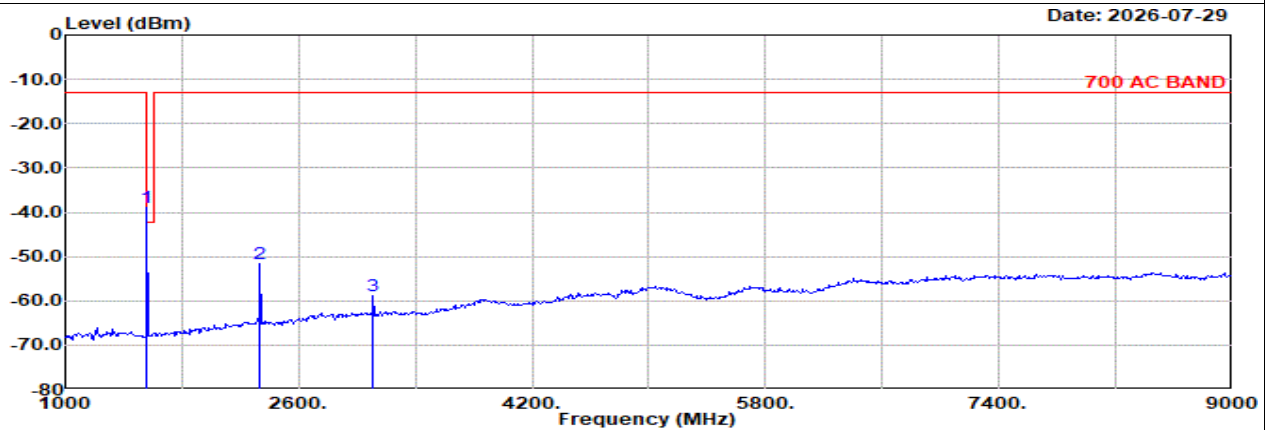


Site : 03CH23-HY

Condition: 700 AC BAND 3m DRH18-E\_KV2D06A18ES\_251105 Horizontal

: LTE Band 13 10M Ch23230 1RB0 16QAM

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb 1 | Filter | EIRPCF | Reading | Limit  | Margin | Pol        |
|---|---------|--------|----------|------------|----------|--------|--------|---------|--------|--------|------------|
|   | MHz     | dBm    |          | dB/m       | dB       | dB     | dB     | dBuV    | dBm    | dB     |            |
| 1 | 1555.00 | -58.29 | RMS      | 24.15      | -25.17   | 1.34   | -95.23 | 36.62   | -13.00 | -45.29 | Horizontal |
| 2 | 2332.00 | -59.35 | RMS      | 27.10      | -24.42   | 1.29   | -95.23 | 31.91   | -13.00 | -46.35 | Horizontal |
| 3 | 3110.00 | -63.06 | RMS      | 28.02      | -23.52   | 1.47   | -95.23 | 26.20   | -13.00 | -50.06 | Horizontal |



Site : 03CH23-HY

Condition: 700 AC BAND 3m DRH18-E\_KV2D06A18ES\_251105 Vertical

: LTE Band 13 10M Ch23230 1RB0 16QAM

|   | Freq    | Level  | Detector | Ant Factor | Amp\Cb 1 | Filter | EIRPCF | Readin g | Limit  | Margin | Pol      |
|---|---------|--------|----------|------------|----------|--------|--------|----------|--------|--------|----------|
|   | MHz     | dBm    |          | dB/m       | dB       | dB     | dB     | dBuV     | dBm    | dB     |          |
| 1 | 1555.00 | -38.81 | RMS      | 24.15      | -25.17   | 1.34   | -95.23 | 56.10    | -13.00 | -25.81 | Vertical |
| 2 | 2332.00 | -51.69 | RMS      | 27.10      | -24.42   | 1.29   | -95.23 | 39.57    | -13.00 | -38.69 | Vertical |
| 3 | 3110.00 | -58.76 | RMS      | 28.02      | -23.52   | 1.47   | -95.23 | 30.50    | -13.00 | -45.76 | Vertical |

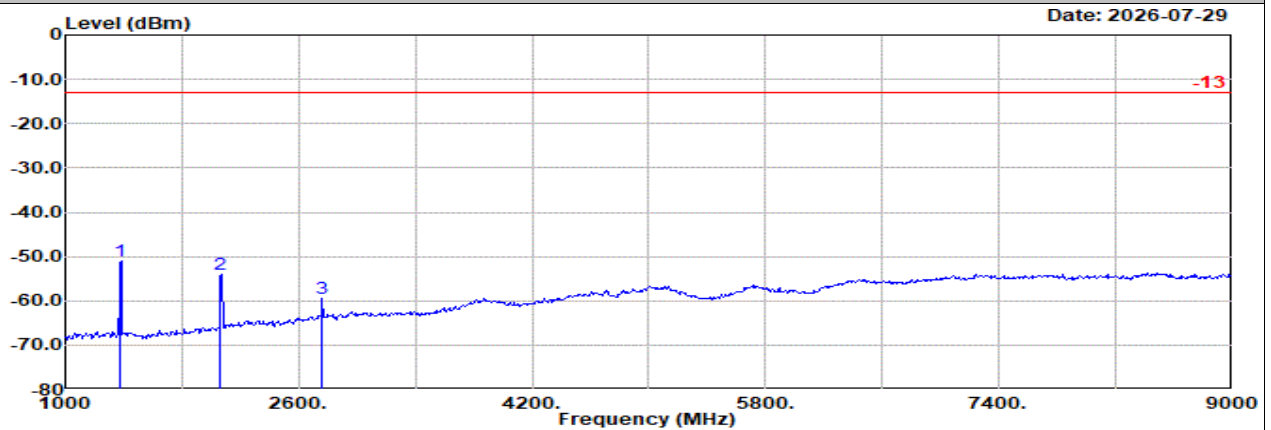


## Ant. 1

## Part 27N Mode 1

LTE B71 10M Ch133422 1RB0 16QAM

H

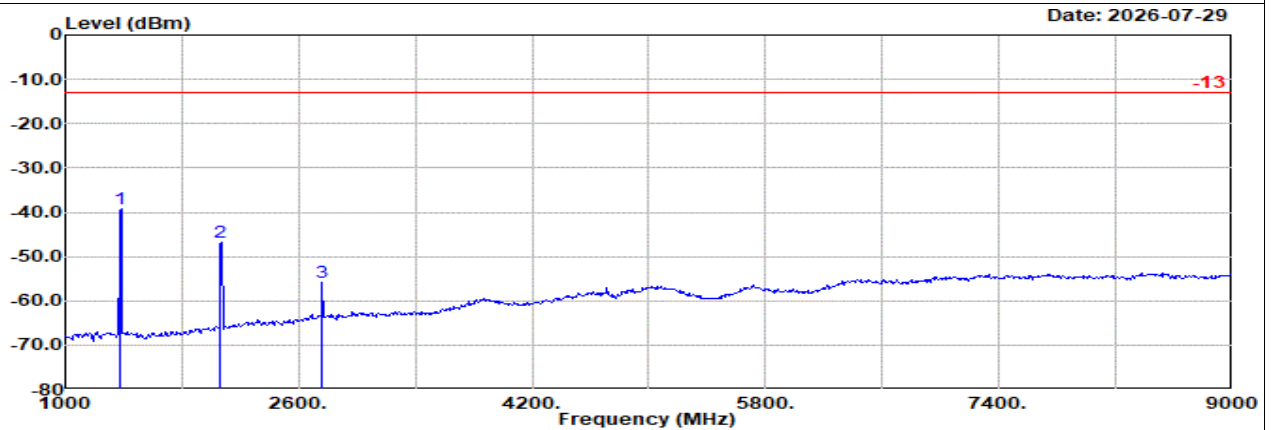


Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Horizontal

: LTE Band 71 10M Ch133422 1RB0 16QAM

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb |        | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol        |
|---|-------------|--------------|----------|------------|--------|--------|--------|-------------|--------|--------|------------|
|   |             |              |          | Factor     | 1      |        |        |             |        |        |            |
|   |             |              |          |            |        |        |        |             |        |        |            |
| 1 | 1377.00     | -51.12       | RMS      | 24.37      | -25.42 | 1.61   | -95.23 | 43.55       | -13.00 | -38.12 | Horizontal |
| 2 | 2066.00     | -53.93       | RMS      | 25.96      | -24.69 | 1.22   | -95.23 | 38.81       | -13.00 | -40.93 | Horizontal |
| 3 | 2754.00     | -59.51       | RMS      | 27.80      | -23.88 | 1.40   | -95.23 | 30.40       | -13.00 | -46.51 | Horizontal |



Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Vertical

: LTE Band 71 10M Ch133422 1RB0 16QAM

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb |        | Filter | EIRPCF | Readin<br>g | Limit  | Margin | Pol      |
|---|-------------|--------------|----------|------------|--------|--------|--------|-------------|--------|--------|----------|
|   |             |              |          | Factor     | 1      |        |        |             |        |        |          |
|   |             |              |          |            |        |        |        |             |        |        |          |
| 1 | 1377.00     | -39.21       | RMS      | 24.37      | -25.42 | 1.61   | -95.23 | 55.46       | -13.00 | -26.21 | Vertical |
| 2 | 2066.00     | -46.68       | RMS      | 25.96      | -24.69 | 1.22   | -95.23 | 46.06       | -13.00 | -33.68 | Vertical |
| 3 | 2754.00     | -55.98       | RMS      | 27.80      | -23.88 | 1.40   | -95.23 | 33.93       | -13.00 | -42.98 | Vertical |

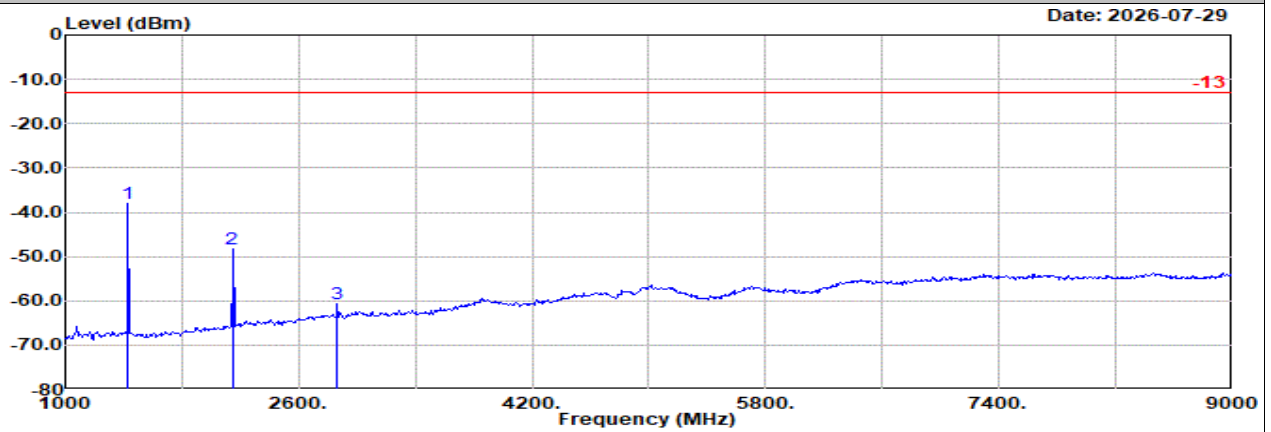


## Ant. 1

## Part 27H Mode 1

## LTE B12 1.4M Ch23173 1RB0 16QAM

## H

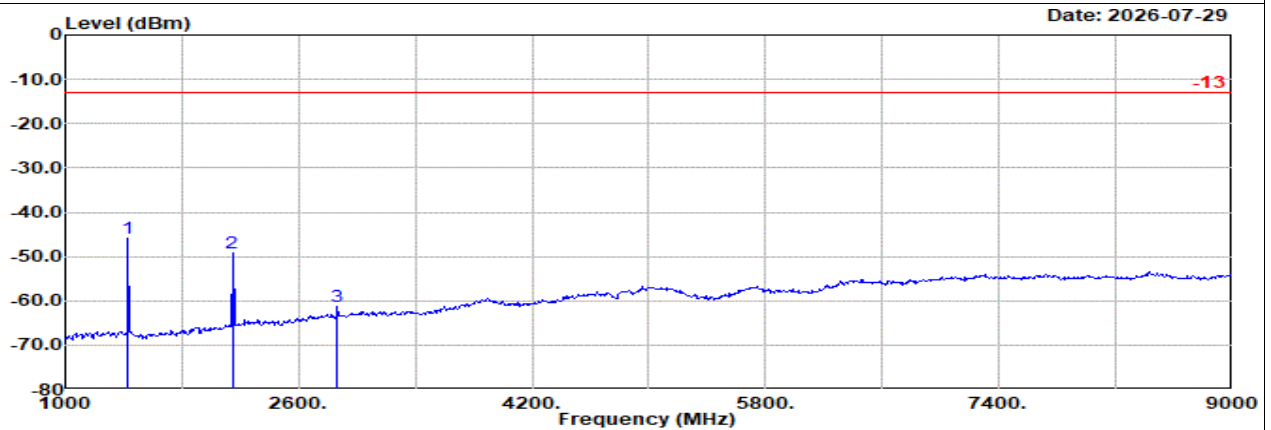


Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Horizontal

: LTE Band 12 1.4M Ch23173 1RB0 16QAM

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin<br>g | Limit | Margin | Pol               |
|---|-------------|--------------|----------|-------------------|--------|--------|-------------|-------|--------|-------------------|
|   |             |              |          | Factor            | 1      |        |             |       |        |                   |
|   |             |              |          |                   |        |        |             |       |        |                   |
| 1 | 1429.00     | -38.12       | RMS      | 24.50             | -25.33 | 1.52   | -95.23      | 56.42 | -13.00 | -25.12 Horizontal |
| 2 | 2144.00     | -48.26       | RMS      | 26.44             | -24.61 | 1.24   | -95.23      | 43.90 | -13.00 | -35.26 Horizontal |
| 3 | 2859.00     | -60.78       | RMS      | 27.80             | -23.73 | 1.41   | -95.23      | 28.97 | -13.00 | -47.78 Horizontal |



Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Vertical

: LTE Band 12 1.4M Ch23173 1RB0 16QAM

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin<br>g | Limit | Margin | Pol             |
|---|-------------|--------------|----------|-------------------|--------|--------|-------------|-------|--------|-----------------|
|   |             |              |          | Factor            | 1      |        |             |       |        |                 |
|   |             |              |          |                   |        |        |             |       |        |                 |
| 1 | 1429.00     | -46.00       | RMS      | 24.50             | -25.33 | 1.52   | -95.23      | 48.54 | -13.00 | -33.00 Vertical |
| 2 | 2144.00     | -49.34       | RMS      | 26.44             | -24.61 | 1.24   | -95.23      | 42.82 | -13.00 | -36.34 Vertical |
| 3 | 2859.00     | -61.37       | RMS      | 27.80             | -23.73 | 1.41   | -95.23      | 28.38 | -13.00 | -48.37 Vertical |

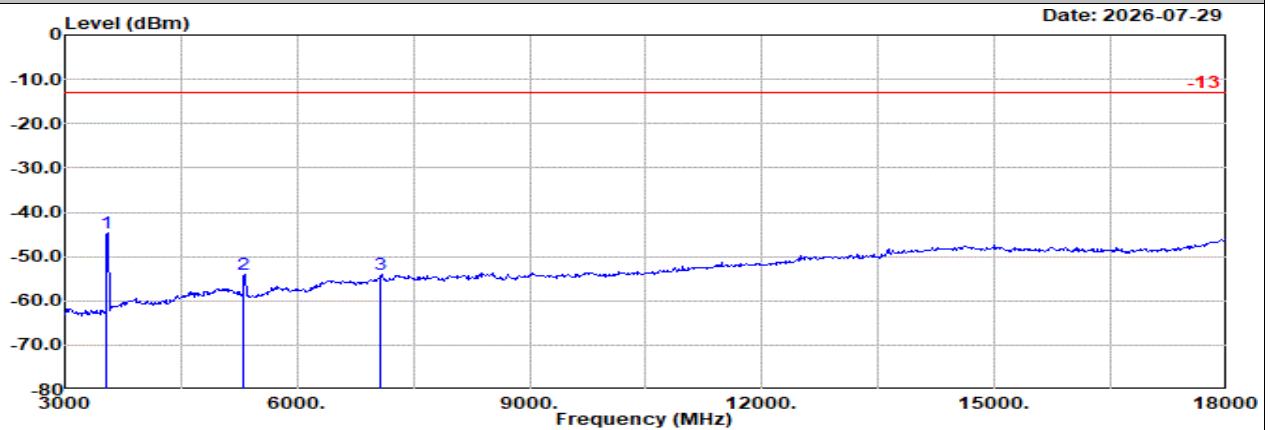


## Ant. 1

## Part 27L Mode 2

## LTE B66 10M Ch132622 1RB0 QPSK

## H

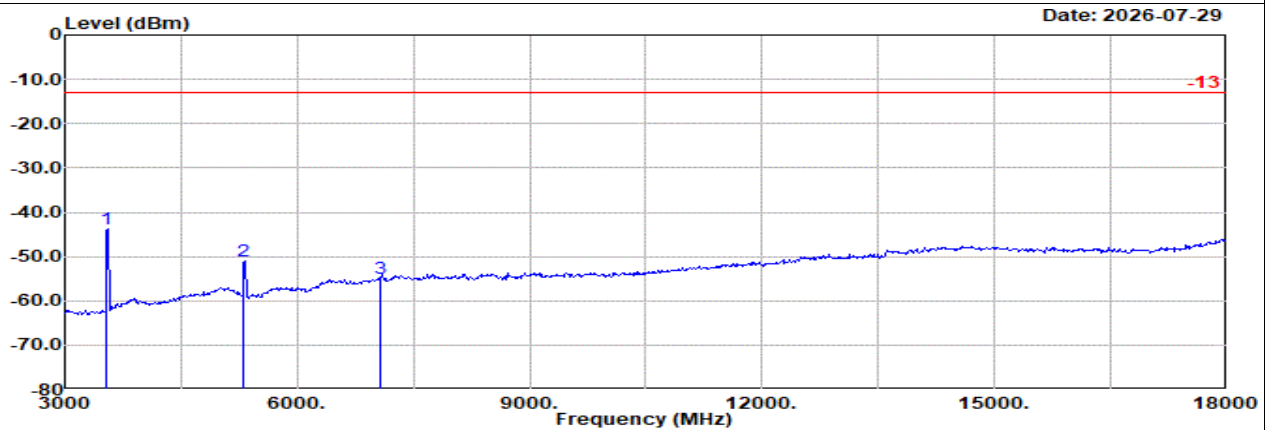


Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Horizontal

: LTE Band 66 10M Ch132622 1RB0 QPSK

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin<br>g | Limit | Margin | Pol               |
|---|-------------|--------------|----------|-------------------|--------|--------|-------------|-------|--------|-------------------|
|   |             |              |          | Factor            | 1      |        |             |       |        |                   |
|   |             |              |          | dB/m              | dB     | dB     | dB          | dBuV  | dBm    | dB                |
| 1 | 3541.00     | -44.72       | RMS      | 28.85             | -23.44 | 1.78   | -95.23      | 43.32 | -13.00 | -31.72 Horizontal |
| 2 | 5311.00     | -54.01       | RMS      | 32.40             | -21.91 | 1.83   | -95.23      | 28.90 | -13.00 | -41.01 Horizontal |
| 3 | 7082.00     | -53.95       | RMS      | 36.46             | -22.59 | 1.90   | -95.23      | 25.51 | -13.00 | -40.95 Horizontal |



Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Vertical

: LTE Band 66 10M Ch132622 1RB0 QPSK

|   | Freq<br>MHz | Level<br>dBm | Detector | Ant Amp\Cb Filter |        | EIRPCF | Readin<br>g | Limit | Margin | Pol             |
|---|-------------|--------------|----------|-------------------|--------|--------|-------------|-------|--------|-----------------|
|   |             |              |          | Factor            | 1      |        |             |       |        |                 |
|   |             |              |          | dB/m              | dB     | dB     | dB          | dBuV  | dBm    | dB              |
| 1 | 3541.00     | -43.84       | RMS      | 28.85             | -23.44 | 1.78   | -95.23      | 44.20 | -13.00 | -30.84 Vertical |
| 2 | 5311.00     | -51.05       | RMS      | 32.40             | -21.91 | 1.83   | -95.23      | 31.86 | -13.00 | -38.05 Vertical |
| 3 | 7082.00     | -55.04       | RMS      | 36.46             | -22.59 | 1.90   | -95.23      | 24.42 | -13.00 | -42.04 Vertical |

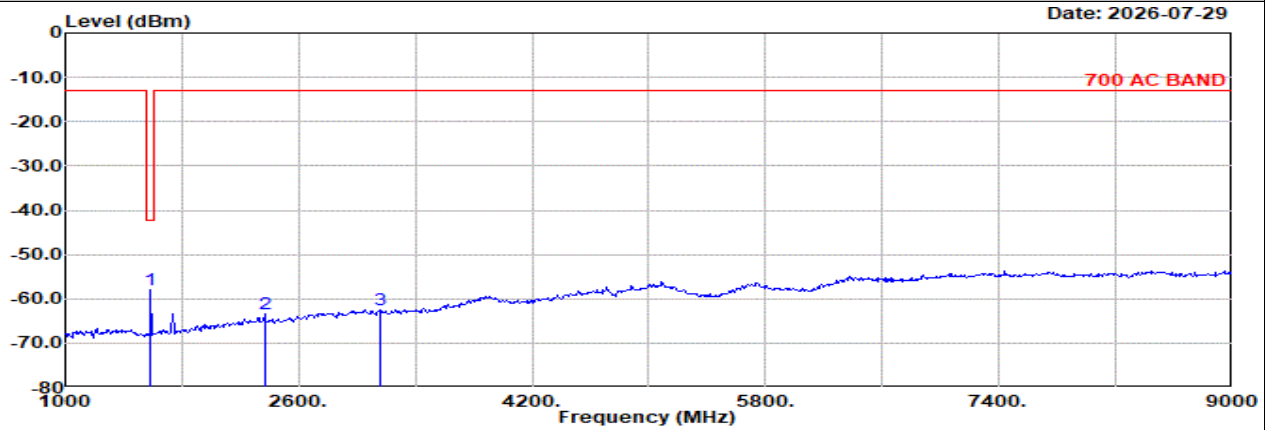


## Ant. 1

## Part 90R Mode 1

LTE B14 10M Ch23330 1RB0 QPSK

M

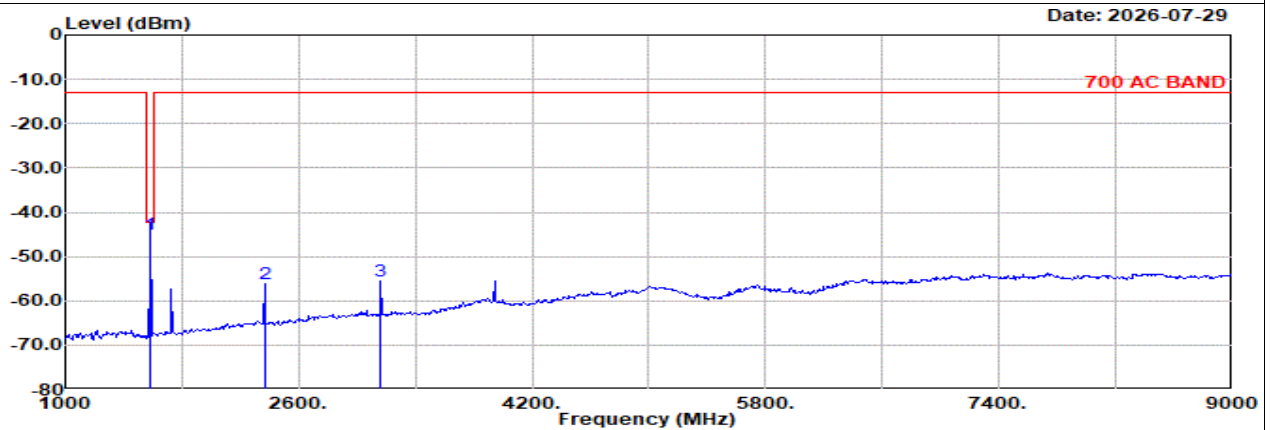


Site : 03CH23-HY

Condition: 700 AC BAND 3m DRH18-E\_KV2D06A18ES\_251105 Horizontal

: LTE Band 14 5M Ch23330 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant    | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          | Factor | 1      |        |        | g      | dBm    |        |            |
| 1 | 1577.00 | -57.95 | RMS      | 24.27  | -25.15 | 1.31   | -95.23 | 36.85  | -42.15 | -15.80 | Horizontal |
| 2 | 2366.00 | -63.25 | RMS      | 26.94  | -24.39 | 1.30   | -95.23 | 28.13  | -13.00 | -50.25 | Horizontal |
| 3 | 3154.00 | -62.60 | RMS      | 28.10  | -23.51 | 1.49   | -95.23 | 26.55  | -13.00 | -49.60 | Horizontal |



Site : 03CH23-HY

Condition: 700 AC BAND 3m DRH18-E\_KV2D06A18ES\_251105 Vertical

: LTE Band 14 5M Ch23330 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant    | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|----------|
|   |         |        |          | Factor | 1      |        |        |        | g      |        |          |
|   | MHz     | dBm    |          | dB/m   | dB     | dB     |        | dBuV   | dBm    | dB     |          |
| 1 | 1577.00 | -45.10 | RMS      | 24.27  | -25.15 | 1.31   | -95.23 | 49.70  | -42.15 | -2.95  | Vertical |
| 2 | 2366.00 | -56.02 | RMS      | 26.94  | -24.39 | 1.30   | -95.23 | 35.36  | -13.00 | -43.02 | Vertical |
| 3 | 3154.00 | -55.57 | RMS      | 28.10  | -23.51 | 1.49   | -95.23 | 33.58  | -13.00 | -42.57 | Vertical |

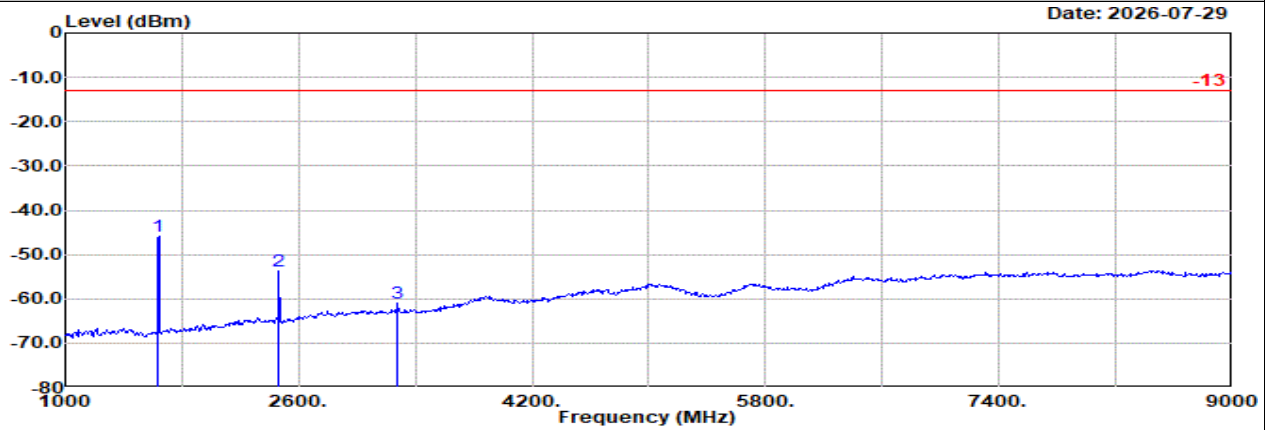


## Ant. 1

## Part 90S Mode 1

## LTE B26 5M Ch26765 1RB0 QPSK

## H

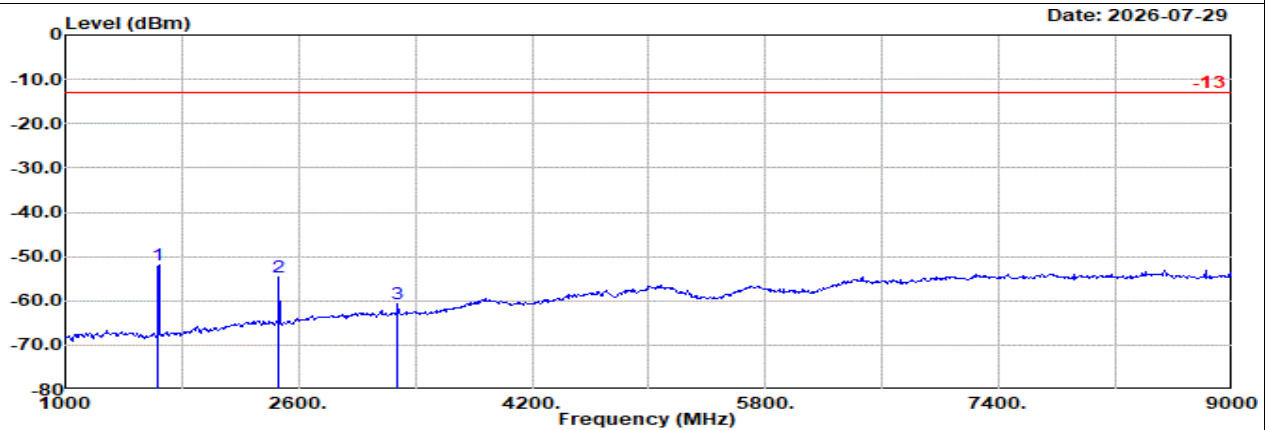


Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Horizontal

: LTE Band 26 5M Ch26765 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant    | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol        |
|---|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|------------|
|   | MHz     | dBm    |          | Factor | 1      | dB     |        | dB     | g      |        |            |
| 1 | 1639.00 | -45.99 | RMS      | 24.60  | -25.09 | 1.29   | -95.23 | 48.44  | -13.00 | -32.99 | Horizontal |
| 2 | 2458.00 | -53.60 | RMS      | 26.60  | -24.29 | 1.34   | -95.23 | 37.98  | -13.00 | -40.60 | Horizontal |
| 3 | 3277.00 | -60.94 | RMS      | 28.15  | -23.50 | 1.47   | -95.23 | 28.17  | -13.00 | -47.94 | Horizontal |



Site : 03CH23-HY

Condition: -13 3m DRH18-E\_KV2D06A18ES\_251105 Vertical

: LTE Band 26 5M Ch26765 1RB0 QPSK

|   | Freq    | Level  | Detector | Ant    | Amp\Cb | Filter | EIRPCF | Readin | Limit  | Margin | Pol      |
|---|---------|--------|----------|--------|--------|--------|--------|--------|--------|--------|----------|
|   |         |        |          | Factor | 1      |        |        | g      | g      |        |          |
|   | MHz     | dBm    |          | dB/m   | dB     | dB     |        | dBuV   | dBm    |        | dB       |
| 1 | 1639.00 | -51.93 | RMS      | 24.60  | -25.09 | 1.29   | -95.23 | 42.50  | -13.00 | -38.93 | Vertical |
| 2 | 2458.00 | -54.79 | RMS      | 26.60  | -24.29 | 1.34   | -95.23 | 36.79  | -13.00 | -41.79 | Vertical |
| 3 | 3277.00 | -60.79 | RMS      | 28.15  | -23.50 | 1.47   | -95.23 | 28.32  | -13.00 | -47.79 | Vertical |

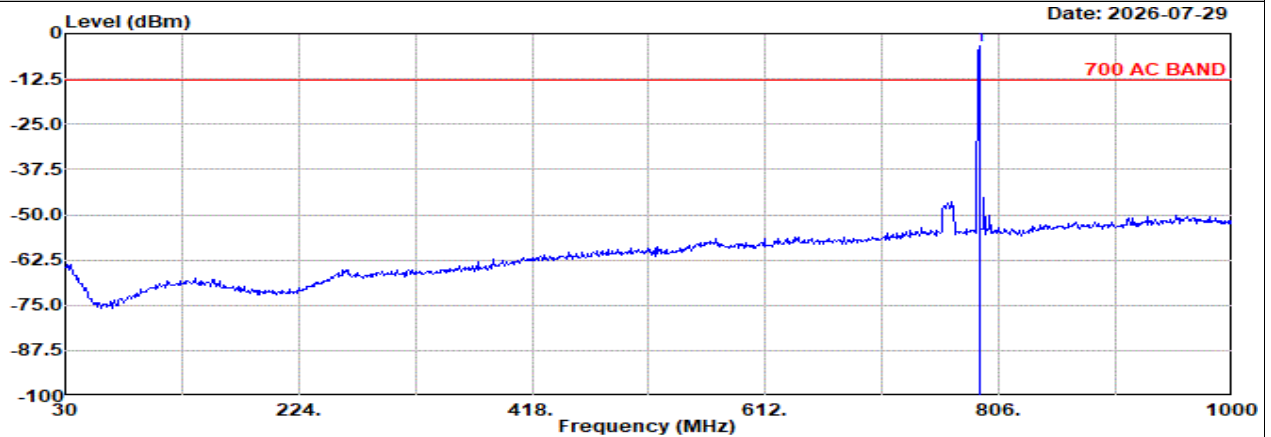


Ant. 1

Part 90R Mode 1

LTE B14 10M Ch23330 1RB0 QPSK

M



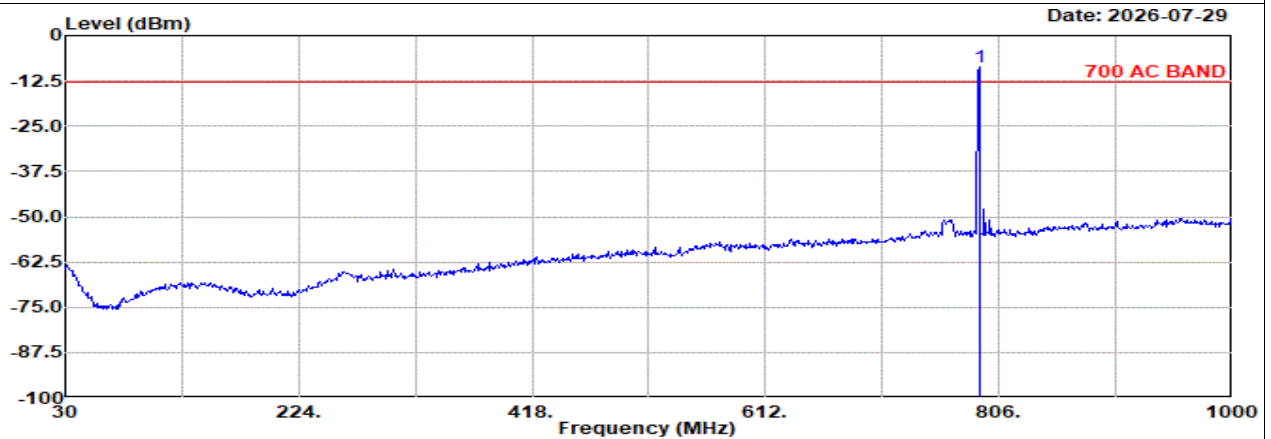
Site : 03CH23-HY

Condition: 700 AC BAND 3m CBL6111D\_62028 &amp; 003\_251126 Horizontal

: LTE B14 10M Ch23330 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

|   | Freq   | Level | Detector | Ant Amp\Cb Filter |      | EIRPCF | Readin | Limit | Margin | Pol        |
|---|--------|-------|----------|-------------------|------|--------|--------|-------|--------|------------|
|   |        |       |          | Factor            | 1    |        |        |       |        |            |
|   | MHz    | dBm   |          | dB/m              | dB   | dB     | dB     | dBuV  | dBm    | dB         |
| 1 | 789.51 | -3.30 | RMS      | 28.14             | 4.04 | 0.00   | -95.23 | 59.75 | -----  | Horizontal |



Site : 03CH23-HY

Condition: 700 AC BAND 3m CBL6111D\_62028 &amp; 003\_251126 Vertical

: LTE B14 10M Ch23330 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

|   | Freq   | Level | Detector | Ant Amp\Cb Filter |      | EIRPCF | Readin | Limit | Margin | Pol      |
|---|--------|-------|----------|-------------------|------|--------|--------|-------|--------|----------|
|   |        |       |          | Factor            | 1    |        |        |       |        |          |
|   | MHz    | dBm   |          | dB/m              | dB   | dB     | dB     | dBuV  | dBm    | dB       |
| 1 | 789.51 | -8.55 | RMS      | 28.14             | 4.04 | 0.00   | -95.23 | 54.50 | -----  | Vertical |