

# TEST REPORT

**Reference No.**..... : WTX24X12292733W001  
**FCC ID**..... : S3KGLU4000  
**Applicant**..... : Global Telecom Engineering, Inc.  
**Address**..... : 4695 MacArthur Court Suite 1100, Newport Beach CA 92660  
**Manufacturer**..... : The same as Applicant  
**Address**..... : The same as Applicant  
**Product Name**..... : NetStick-Q  
**Model No.**..... : GLU-4000Q  
**Standards**..... : FCC Part 22,FCC Part 24E, FCC Part 27  
**Date of Receipt sample**..... : 2024-12-12  
**Date of Test**..... : 2024-12-12 to 2025-02-13  
**Date of Issue**..... : 2025-02-13  
**Test Report Form No.**..... : WTX\_Part 22\_ Part 24\_ Part 27W  
**Test Result**..... : **Pass**

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

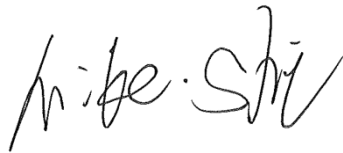
**Prepared By:**

**Waltek Testing Group (Shenzhen) Co., Ltd.**

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,  
Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:



Mike Shi/ Project Engineer

Approved by:



Jason Su/ Manager

## **TABLE OF CONTENTS**

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>1. GENERAL INFORMATION.....</b>                           | <b>4</b>  |
| 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) ..... | 4         |
| 1.2 TEST STANDARDS .....                                     | 7         |
| 1.3 TEST METHODOLOGY .....                                   | 7         |
| 1.4 TEST FACILITY .....                                      | 7         |
| 1.5 EUT SETUP AND TEST MODE .....                            | 8         |
| 1.6 MEASUREMENT UNCERTAINTY .....                            | 9         |
| 1.7 TEST EQUIPMENT LIST AND DETAILS .....                    | 10        |
| <b>2. SUMMARY OF TEST RESULTS .....</b>                      | <b>14</b> |
| <b>3. RF OUTPUT POWER.....</b>                               | <b>15</b> |
| 3.1 STANDARD APPLICABLE .....                                | 15        |
| 3.2 TEST PROCEDURE .....                                     | 15        |
| 3.3 SUMMARY OF TEST RESULTS/PLOTS .....                      | 15        |
| <b>4. PEAK-TO-AVERAGE RATIO (PAR) OF TRANSMITTER.....</b>    | <b>31</b> |
| 4.1 STANDARD APPLICABLE .....                                | 31        |
| 4.2 TEST PROCEDURE .....                                     | 31        |
| 4.3 SUMMARY OF TEST RESULTS .....                            | 31        |
| <b>5. EMISSION BANDWIDTH .....</b>                           | <b>32</b> |
| 5.1 STANDARD APPLICABLE .....                                | 32        |
| 5.2 TEST PROCEDURE .....                                     | 32        |
| 5.3 SUMMARY OF TEST RESULTS/PLOTS .....                      | 32        |
| <b>6. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL .....</b>    | <b>33</b> |
| 6.1 STANDARD APPLICABLE .....                                | 33        |
| 6.2 TEST PROCEDURE .....                                     | 33        |
| 6.3 SUMMARY OF TEST RESULTS/PLOTS .....                      | 34        |
| <b>7. SPURIOUS RADIATED EMISSIONS .....</b>                  | <b>35</b> |
| 7.1 STANDARD APPLICABLE .....                                | 35        |
| 7.2 TEST PROCEDURE .....                                     | 35        |
| 7.3 SUMMARY OF TEST RESULTS/PLOTS .....                      | 35        |
| <b>8. FREQUENCY STABILITY .....</b>                          | <b>61</b> |
| 8.1 STANDARD APPLICABLE .....                                | 61        |
| 8.2 TEST PROCEDURE .....                                     | 61        |
| 8.3 SUMMARY OF TEST RESULTS/PLOTS .....                      | 61        |
| <b>APPENDIX PHOTOGRAPHS .....</b>                            | <b>62</b> |

Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | 2025-02-13    | Original    |
| /           | /             | /           |

## 1. GENERAL INFORMATION

---

### 1.1 Product Description for Equipment Under Test (EUT)

| General Description of EUT:                                                             |                 |
|-----------------------------------------------------------------------------------------|-----------------|
| Product Name:                                                                           | NetStick-Q      |
| Trade Name:                                                                             | NetStick-Q      |
| Model No.:                                                                              | GLU-4000Q       |
| Adding Model(s):                                                                        | /               |
| Rated Voltage:                                                                          | USB DC 5V       |
| Battery:                                                                                | /               |
| Adapter Model:                                                                          | /               |
| IMEI:                                                                                   | /               |
| Device Category:                                                                        | Portable Device |
| <i>The test data is gathered from a production sample provided by the manufacturer.</i> |                 |

| <b>Technical Characteristics of EUT:</b> |                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>4G</b>                                |                                                                                                                                                                                                                                                                                                                                                                          |
| Support Networks:                        | FDD-LTE, TDD-LTE                                                                                                                                                                                                                                                                                                                                                         |
| Support Band:                            | FDD-LTE Band 2, 4, 5, 12, 13, 25, 26, 66, 71,<br>TDD-LTE Band 41                                                                                                                                                                                                                                                                                                         |
| Uplink Frequency:                        | FDD-LTE Band 2: Tx: 1850-1910MHz,<br>FDD-LTE Band 4: Tx: 1710-1755MHz,<br>FDD-LTE Band 5: Tx: 824-849MHz,<br>FDD-LTE Band 12: Tx: 699-716MHz,<br>FDD-LTE Band 13: Tx: 777-787MHz,<br>FDD-LTE Band 25: Tx: 1850-1915MHz<br>FDD-LTE Band 26: Tx: 824-849MHz<br>FDD-LTE Band 66: Tx: 1710-1780MHz<br>FDD-LTE Band 71: Tx: 663-698MHz<br>TDD-LTE Band 41: Tx: 2496-2690MHz   |
| Downlink Frequency:                      | FDD-LTE Band 2: Rx: 1930-1990MHz,<br>FDD-LTE Band 4: Rx: 2110-2155MHz,<br>FDD-LTE Band 5: Rx: 869-894MHz,<br>FDD-LTE Band 12: Rx: 729-746MHz,<br>FDD-LTE Band 13: Rx: 746-756MHz,<br>FDD-LTE Band 25: Rx: 1930-1995MHz<br>FDD-LTE Band 26: Rx: 869-894MHz<br>FDD-LTE Band 66: Rx: 2110-2200MHz,<br>FDD-LTE Band 71: Rx: 617-652MHz,<br>TDD-LTE Band 41: Rx: 2496-2690MHz |
| RF Output Power:                         | FDD-LTE Band 2: 24.24dBm,<br>FDD-LTE Band 4: 24.80dBm,<br>FDD-LTE Band 5: 24.14dBm,<br>FDD-LTE Band 12: 23.33dBm,<br>FDD-LTE Band 13: 23.96dBm,<br>FDD-LTE Band 25: 24.29dBm,<br>FDD-LTE Band 26: 22.90dBm,<br>FDD-LTE Band 66: 24.61dBm,<br>FDD-LTE Band 71: 23.09dBm,<br>TDD-LTE Band 41: 25.70dBm,                                                                    |
| Type of Emission:                        | FDD-LTE Band 2: 18M0G7D, 18M0W7D<br>FDD-LTE Band 4: 18M0G7D, 18M0W7D<br>FDD-LTE Band 5: 8M95G7D, 8M99W7D<br>FDD-LTE Band 12: 8M99G7D, 8M99W7D<br>FDD-LTE Band13: 8M95G7D, 8M92W7D<br>FDD-LTE Band 25: 18M0G7D, 18M0W7D<br>FDD-LTE Band 26: 13M5G7D, 13M4W7D                                                                                                              |

|                                                                                                  |                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                  | FDD-LTE Band 66: 18M0G7D, 18M0W7D<br>FDD-LTE Band 71: 18M0G7D, 18M0W7D<br>TDD-LTE Band 41: 18M1G7D, 18M1W7D                                                                                                                                                                                 |
| Type of Modulation:                                                                              | QPSK, 16QAM                                                                                                                                                                                                                                                                                 |
| Antenna Type:                                                                                    | Integral Antenna                                                                                                                                                                                                                                                                            |
| Antenna Gain:                                                                                    | FDD-LTE Band 2: 2.14dBi,<br>FDD-LTE Band 4: 1.55dBi,<br>FDD-LTE Band 5: 1.96dBi,<br>FDD-LTE Band 12: 5.25dBi,<br>FDD-LTE Band 13: 5.78dBi,<br>FDD-LTE Band 25: 2.14dBi,<br>FDD-LTE Band 26: 1.96dBi,<br>FDD-LTE Band 66: 2.46dBi,<br>FDD-LTE Band 71: 4.57dBi,<br>TDD-LTE Band 41: 6.05dBi, |
| <i>Note The Antenna Gain is provided by the customer and can affect the validity of results.</i> |                                                                                                                                                                                                                                                                                             |

## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 2:** Frequency Allocations and Radio Treaty Matters; General Rules and Regulations.

**FCC Rules Part 22:** Private Land Mobile Radio Services.

**FCC Rules Part 24:** Public Mobile Services.

**FCC Rules Part 27:** Miscellaneous Wireless Communications Services.

**TIA/EIA 603 E March 2016:** Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

**ANSI C63.26-2015:** American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services.

**KDB 971168 D01 Power Measurement License Digital Systems v03r01:** Measurement Guidance for Certification of Licensed Digital Transmitters.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with TIA/EIA 603 E/ KDB 971168/ ANSI C63.26. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

## 1.4 Test Facility

### Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest

possible emissions level, more detailed description as follows:

| Test Mode List |                 |                            |
|----------------|-----------------|----------------------------|
| Test Mode      | Description     | Remark                     |
| TM1            | FDD-LTE Band 2  | Low, Middle, High Channels |
| TM2            | FDD-LTE Band 4  | Low, Middle, High Channels |
| TM3            | FDD-LTE Band 5  | Low, Middle, High Channels |
| TM4            | FDD-LTE Band 12 | Low, Middle, High Channels |
| TM5            | FDD-LTE Band 13 | Low, Middle, High Channels |
| TM6            | FDD-LTE Band 25 | Low, Middle, High Channels |
| TM7            | FDD-LTE Band 26 | Low, Middle, High Channels |
| TM8            | TDD-LTE Band 41 | Low, Middle, High Channels |
| TM9            | FDD-LTE Band 66 | Low, Middle, High Channels |
| TM10           | FDD-LTE Band 71 | Low, Middle, High Channels |

| Test Conditions    |           |
|--------------------|-----------|
| Temperature:       | 22~25 °C  |
| Relative Humidity: | 45~75 %   |
| ATM Pressure:      | 1019 mbar |

| EUT Cable List and Details |            |                     |                        |
|----------------------------|------------|---------------------|------------------------|
| Cable Description          | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| /                          | /          | /                   | /                      |

| Special Cable List and Details |            |                     |                        |
|--------------------------------|------------|---------------------|------------------------|
| Cable Description              | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| /                              | /          | /                   | /                      |

| Auxiliary Equipment List and Details |              |         |                 |
|--------------------------------------|--------------|---------|-----------------|
| Description                          | Manufacturer | Model   | Serial Number   |
| Notebook                             | ASUS         | FA5061C | M8NRCX057996349 |



## 1.6 Measurement Uncertainty

| Measurement uncertainty        |            |                               |
|--------------------------------|------------|-------------------------------|
| Parameter                      | Conditions | Uncertainty                   |
| RF Output Power                | Conducted  | $\pm 0.42\text{dB}$           |
| Occupied Bandwidth             | Conducted  | $\pm 1.5\%$                   |
| Frequency Stability            | Conducted  | 2.3%                          |
| Transmitter Spurious Emissions | Conducted  | $\pm 0.42\text{dB}$           |
| Transmitter Spurious Emissions | Radiated   | 30-200MHz $\pm 4.52\text{dB}$ |
|                                |            | 0.2-1GHz $\pm 5.56\text{dB}$  |
|                                |            | 1-6GHz $\pm 3.84\text{dB}$    |
|                                |            | 6-18GHz $\pm 3.92\text{dB}$   |

## 1.7 Test Equipment List and Details

| Fixed asset Number                             | Description                 | Manufacturer    | Model     | Serial No.  | Cal Date   | Due. Date  |
|------------------------------------------------|-----------------------------|-----------------|-----------|-------------|------------|------------|
| WTXE1041<br>A1001                              | Communication Tester        | Rohde & Schwarz | CMW500    | 148650      | 2024-02-24 | 2025-02-23 |
| WTXE1022<br>A1002                              | GSM Tester                  | Rohde & Schwarz | CMU200    | 114403      | 2024-02-27 | 2025-02-26 |
| WTXE1104<br>A1001                              | MXG Vector Signal Generator | Agilent         | N5182A    | MY47420108  | 2024-02-24 | 2025-02-23 |
| WTXE1104<br>A1002                              | DC Power Supply             | Agilent         | E3634A    | MY40009294  | 2024-02-24 | 2025-02-23 |
| WTXE1104<br>A1003                              | EXG Analog Signal Generator | KEYSIGHT        | N5173B    | MY61252892  | 2024-02-24 | 2025-02-23 |
| WTXE1104<br>A1004                              | Spectrum Analyzer           | Rohde&Schwarz   | FSV40-N   | 101559      | 2024-02-24 | 2025-02-23 |
| WTXE1018<br>A1001                              | Power Divider               | Weinschel       | 1506A     | PM204       | 2024-02-29 | 2025-02-28 |
| WTXE1104<br>A1005-2                            | Band Reject Filter Group    | Tonscend        | JS0806-F  | 23A806F0658 | 2024-03-23 | 2025-03-22 |
| WTXE1103<br>A1003                              | Attenuator                  | Pasternack      | PE4007-4  | /           | 2024-02-24 | 2025-02-23 |
| WTXE1003<br>A1-005                             | Coaxial Cable               | /               | 0M4RFC    | /           | 2024-07-03 | 2025-01-03 |
|                                                |                             |                 |           |             | 2025-01-03 | 2025-07-02 |
| <input type="checkbox"/> Chamber A: Below 1GHz |                             |                 |           |             |            |            |
| WTXE1005<br>A1003                              | Spectrum Analyzer           | Rohde & Schwarz | FSP30     | 836079/035  | 2024-02-24 | 2025-02-23 |
| WTXE1001<br>A1001                              | EMI Test Receiver           | Rohde & Schwarz | ESPI      | 101611      | 2024-03-19 | 2025-03-18 |
| WTXE1007<br>A1001                              | Amplifier                   | HP              | 8447F     | 2805A03475  | 2024-02-24 | 2025-02-23 |
| WTXE1010<br>A1007                              | Loop Antenna                | Schwarz beck    | FMZB 1516 | 9773        | 2024-02-26 | 2025-02-25 |
| WTXE1010<br>A1006                              | Broadband Antenna           | Schwarz beck    | VULB9163  | 9163-333    | 2024-02-24 | 2025-02-23 |
| WTXE1104<br>A1032-1                            | Coaxial Cable               | /               | RC_6G-N-M | /           | 2024-03-15 | 2025-03-14 |
| WTXE1104<br>A1032-2                            | Coaxial Cable               | /               | RC_6G-N-M | /           | 2024-03-15 | 2025-03-14 |
| WTXE1104<br>A1032-3                            | Coaxial Cable               | /               | RC_6G-N-M | /           | 2024-03-15 | 2025-03-14 |

|                                                          |                          |                 |                  |                |            |            |
|----------------------------------------------------------|--------------------------|-----------------|------------------|----------------|------------|------------|
| <input type="checkbox"/> Chamber A: Above 1GHz           |                          |                 |                  |                |            |            |
| WTXE1005<br>A1003                                        | Spectrum Analyzer        | Rohde & Schwarz | FSP30            | 836079/03<br>5 | 2024-02-24 | 2025-02-23 |
| WTXE1001<br>A1001                                        | EMI Test Receiver        | Rohde & Schwarz | ESPI             | 101611         | 2024-03-19 | 2025-03-18 |
| WTXE1065<br>A1001                                        | Amplifier                | C&D             | PAP-1G18         | 2002           | 2024-02-27 | 2025-02-26 |
| WTXE1010<br>A1005                                        | Horn Antenna             | ETS             | 3117             | 00086197       | 2024-02-26 | 2025-02-25 |
| WTXE1010<br>A1010                                        | DRG Horn Antenna         | A.H. SYSTEMS    | SAS-574          | 571            | 2024-03-17 | 2025-03-16 |
| WTXE1003<br>A1001                                        | Pre-amplifier            | Schwarzbeck     | BBV 9721         | 9721-031       | 2024-02-29 | 2025-02-28 |
| WTXE1004<br>A1-001                                       | Spectrum Analyzer        | Rohde & Schwarz | FSP40            | 100612         | 2024-02-27 | 2025-02-26 |
| WTXE1104<br>A1033-1                                      | Coaxial Cable            | /               | C16-07-07        | /              | 2024-03-15 | 2025-03-14 |
| WTXE1104<br>A1033-2                                      | Coaxial Cable            | /               | C16-07-07        | /              | 2024-03-15 | 2025-03-14 |
| WTXE1104<br>A1033-3                                      | Coaxial Cable            | /               | C16-07-07        | /              | 2024-03-15 | 2025-03-14 |
| <input type="checkbox"/> Chamber B:Below 1GHz            |                          |                 |                  |                |            |            |
| WTXE1010<br>A1006                                        | Trilog Broadband Antenna | Schwarz beck    | VULB9163(B)      | 9163-635       | 2024-03-17 | 2027-03-16 |
| WTXE1038<br>A1001                                        | Amplifier                | Agilent         | 8447D            | 2944A104<br>57 | 2024-02-24 | 2025-02-23 |
| WTXE1001<br>A1002                                        | EMI Test Receiver        | Rohde & Schwarz | ESPI             | 101391         | 2024-02-24 | 2025-02-23 |
| WTXE1104<br>A1031-1                                      | Coaxial Cable            | /               | 1.5MRFC-LWB<br>3 | /              | 2024-07-03 | 2025-07-02 |
| WTXE1104<br>A1031-2                                      | Coaxial Cable            | /               | RG 316           | /              | 2024-07-03 | 2025-07-02 |
| WTXE1104<br>A1031-3                                      | Coaxial Cable            | /               | RG 316           | /              | 2024-07-03 | 2025-07-02 |
| <input checked="" type="checkbox"/> Chamber C:Below 1GHz |                          |                 |                  |                |            |            |
| WTXE1093<br>A1001                                        | EMI Test Receiver        | Rohde & Schwarz | ESIB 26          | 100401         | 2024-02-27 | 2025-02-26 |
| WTXE1010<br>A1013-1                                      | Trilog Broadband Antenna | Schwarz beck    | VULB 9168        | 1194           | 2024-04-18 | 2027-04-17 |
| WTXE1007                                                 | Amplifier                | HP              | 8447F            | 2944A038       | 2024-02-24 | 2025-02-23 |

|                                                           |                   |                 |             |                 |            |            |
|-----------------------------------------------------------|-------------------|-----------------|-------------|-----------------|------------|------------|
| A1002                                                     |                   |                 |             | 69              |            |            |
| WTXE1010<br>A1007                                         | Loop Antenna      | Schwarz beck    | FMZB 1516   | 9773            | 2024-02-26 | 2025-02-25 |
| WTXE1104<br>A1034-1                                       | Coaxial Cable     | /               | RC_6G-N-M   | /               | 2024-07-03 | 2025-07-02 |
| WTXE1104<br>A1034-2                                       | Coaxial Cable     | /               | RC_6G-N-M   | /               | 2024-07-03 | 2025-07-02 |
| WTXE1104<br>A1034-3                                       | Coaxial Cable     | /               | RC_6G-N-M   | /               | 2024-07-03 | 2025-07-02 |
| <input checked="" type="checkbox"/> Chamber C: Above 1GHz |                   |                 |             |                 |            |            |
| WTXE1093<br>A1001                                         | EMI Test Receiver | Rohde & Schwarz | ESIB 26     | 100401          | 2024-02-27 | 2025-02-26 |
| WTXE1103<br>A1005                                         | Horn Antenna      | POAM            | RTF-118A    | 1820            | 2023-03-10 | 2026-03-09 |
| WTXE1103<br>A1006                                         | Amplifier         | Tonscend        | TAP01018050 | AP22E806<br>235 | 2024-02-27 | 2025-02-26 |
| WTXE1010<br>A1010                                         | DRG Horn Antenna  | A.H. SYSTEMS    | SAS-574     | 571             | 2024-03-17 | 2025-03-16 |
| WTXE1003<br>A1001                                         | Pre-amplifier     | Schwarzbeck     | BBV 9721    | 9721-031        | 2024-02-29 | 2025-02-28 |
| WTXE1104<br>A1035-1                                       | Coaxial Cable     | /               | RC-18G-N-M  | /               | 2024-07-03 | 2025-07-02 |
| WTXE1104<br>A1035-2                                       | Coaxial Cable     | /               | RC-18G-N-M  | /               | 2024-07-03 | 2025-07-02 |
| WTXE1104<br>A1035-3                                       | Coaxial Cable     | /               | RC-18G-N-M  | /               | 2024-07-03 | 2025-07-02 |
| <input type="checkbox"/> Conducted Room 1#                |                   |                 |             |                 |            |            |
| WTXE1104<br>A1029                                         | EMI Test Receiver | Rohde & Schwarz | ESCI        | 100525          | 2024-12-08 | 2025-12-07 |
| WTXE1002<br>A1001                                         | Pulse Limiter     | Rohde & Schwarz | ESH3-Z2     | 100911          | 2024-02-24 | 2025-02-23 |
| WTXE1003<br>A1001                                         | AC LISN           | Schwarz beck    | NSLK8126    | 8126-279        | 2024-02-24 | 2025-02-23 |
| WTXE1104<br>A1036                                         | Coaxial Cable     | /               | RG 316      | /               | 2024-07-03 | 2025-07-02 |
| WTXE1104<br>A1038                                         | Coaxial Cable     | /               | 6MRFC-DP    | /               | 2024-07-03 | 2025-07-02 |
| <input checked="" type="checkbox"/> Conducted Room 2#     |                   |                 |             |                 |            |            |
| WTXE1001<br>A1004                                         | EMI Test Receiver | Rohde & Schwarz | ESPI        | 101259          | 2024-02-24 | 2025-02-23 |
| WTXE1003<br>A1003                                         | LISN              | Rohde & Schwarz | ENV 216     | 100097          | 2024-02-24 | 2025-02-23 |

Reference No.: WTX24X12292733W001

|                   |               |   |        |   |            |            |
|-------------------|---------------|---|--------|---|------------|------------|
| WTXE1104<br>A1037 | Coaxial Cable | / | RG 316 | / | 2024-07-03 | 2025-07-02 |
|-------------------|---------------|---|--------|---|------------|------------|

| Software List                              |              |          |                        |
|--------------------------------------------|--------------|----------|------------------------|
| Description                                | Manufacturer | Model    | Version                |
| EMI Test Software<br>(Radiated Emission A) | Farad        | EZ-EMC   | RA-03A1<br>(1.1.4.2)   |
| EMI Test Software<br>(Radiated Emission B) | Farad        | EZ-EMC   | RA-03A1<br>(1.1.4.2)   |
| EMI Test Software<br>(Radiated Emission C) | Farad        | EZ-EMC   | RA-03A1-2<br>(1.1.4.2) |
| LTE Test System*                           | Tonscend     | JS1120-1 | V2.5                   |

\*Remark: indicates software version used in the compliance certification testing.

## 2. SUMMARY OF TEST RESULTS

---

| FCC Rules                                                                                          | Description of Test Item                      | Result    |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------|
| §2.1046, §22.913(a)(2), §24.232(c),<br>§27.50(b)(10), §27.50(c)(10), §27.50(d)(4),<br>§27.50(h)(2) | RF Output Power                               | Compliant |
| §24.232(d), §27.50(d)(5)                                                                           | Peak-to-average Ratio (PAR) of<br>Transmitter | Compliant |
| §2.1049                                                                                            | Emission Bandwidth                            | Compliant |
| §2.1053, §22.917(a), §24.238(a),<br>§27.53(c)(2), §27.53(g), §27.53(h)<br>§27.53(m)(4)             | Spurious Emissions at Antenna<br>Terminal     | Compliant |
| §2.1053, §22.917(a), §24.238(a),<br>§27.53(c)(2), §27.53(g), §27.53(h)<br>§27.53(m)(4)             | Spurious Radiation Emissions                  | Compliant |
| §2.1051, §22.917(a), §24.238(a),<br>§27.53(c)(2), §27.53(g), §27.53(h),<br>§27.53(m)(4)            | Out of Band Emissions                         | Compliant |
| §2.1055, §22.355, §24.235, §27.54                                                                  | Frequency Stability                           | Compliant |

### 3. RF Output Power

---

#### 3.1 Standard Applicable

According to §22.913(a)(2), the ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

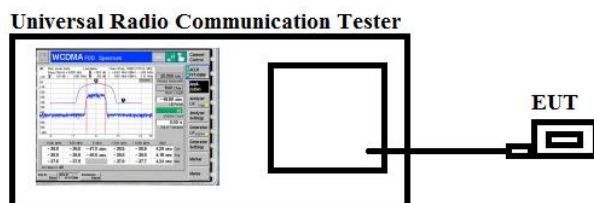
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band and mobile and portable stations operating in the 1695-1710MHz and 1755-1780MHz bands are limited to 1 watt EIRP.

According to §27.50(c)(10), portable stations (hand-held devices) in the 698-746 MHz band are limited to 3 watts ERP.

#### 3.2 Test Procedure

- Conducted output power test method:



- Radiated power test method:

1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

#### 3.3 Summary of Test Results/Plots

**Max. Radiated Power:**

## FDD-LTE Band 2

| Channel Bandwidth: 1.4 MHz |         |               |         |
|----------------------------|---------|---------------|---------|
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.16         | PASS    |
|                            | MCH     | 24.36         | PASS    |
|                            | HCH     | 24.19         | PASS    |
| 16QAM                      | LCH     | 24.36         | PASS    |
|                            | MCH     | 24.58         | PASS    |
|                            | HCH     | 24.69         | PASS    |
| Channel Bandwidth: 3 MHz   |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.68         | PASS    |
|                            | MCH     | 24.23         | PASS    |
|                            | HCH     | 24.08         | PASS    |
| 16QAM                      | LCH     | 24.37         | PASS    |
|                            | MCH     | 24.39         | PASS    |
|                            | HCH     | 24.47         | PASS    |
| Channel Bandwidth: 5 MHz   |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.87         | PASS    |
|                            | MCH     | 24.26         | PASS    |
|                            | HCH     | 24.47         | PASS    |
| 16QAM                      | LCH     | 24.36         | PASS    |
|                            | MCH     | 24.18         | PASS    |
|                            | HCH     | 24.39         | PASS    |
| Channel Bandwidth: 10 MHz  |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.16         | PASS    |
|                            | MCH     | 24.02         | PASS    |
|                            | HCH     | 24.47         | PASS    |
| 16QAM                      | LCH     | 24.02         | PASS    |
|                            | MCH     | 24.39         | PASS    |
|                            | HCH     | 24.41         | PASS    |



| Channel Bandwidth: 15 MHz |         |               |         |
|---------------------------|---------|---------------|---------|
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 24.13         | PASS    |
|                           | MCH     | 24.28         | PASS    |
|                           | HCH     | 24.12         | PASS    |
| 16QAM                     | LCH     | 24.05         | PASS    |
|                           | MCH     | 24.18         | PASS    |
|                           | HCH     | 24.36         | PASS    |
| Channel Bandwidth: 20 MHz |         |               |         |
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 24.18         | PASS    |
|                           | MCH     | 24.39         | PASS    |
|                           | HCH     | 24.13         | PASS    |
| 16QAM                     | LCH     | 24.18         | PASS    |
|                           | MCH     | 24.39         | PASS    |
|                           | HCH     | 24.36         | PASS    |

## FDD-LTE Band 4

| Channel Bandwidth: 1.4 MHz |         |               |         |
|----------------------------|---------|---------------|---------|
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.36         | PASS    |
|                            | MCH     | 24.98         | PASS    |
|                            | HCH     | 24.13         | PASS    |
| 16QAM                      | LCH     | 24.36         | PASS    |
|                            | MCH     | 24.47         | PASS    |
|                            | HCH     | 24.35         | PASS    |
| Channel Bandwidth: 3 MHz   |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 25.21         | PASS    |
|                            | MCH     | 25.05         | PASS    |
|                            | HCH     | 25.16         | PASS    |
| 16QAM                      | LCH     | 25.14         | PASS    |
|                            | MCH     | 25.08         | PASS    |
|                            | HCH     | 25.16         | PASS    |
| Channel Bandwidth: 5 MHz   |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 25.24         | PASS    |
|                            | MCH     | 25.16         | PASS    |
|                            | HCH     | 25.18         | PASS    |
| 16QAM                      | LCH     | 25.47         | PASS    |
|                            | MCH     | 25.13         | PASS    |
|                            | HCH     | 25.05         | PASS    |
| Channel Bandwidth: 10 MHz  |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 25.19         | PASS    |
|                            | MCH     | 25.36         | PASS    |
|                            | HCH     | 25.15         | PASS    |
| 16QAM                      | LCH     | 25.08         | PASS    |
|                            | MCH     | 25.36         | PASS    |
|                            | HCH     | 25.13         | PASS    |

| Channel Bandwidth: 15 MHz |         |               |         |
|---------------------------|---------|---------------|---------|
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 25.16         | PASS    |
|                           | MCH     | 25.35         | PASS    |
|                           | HCH     | 25.18         | PASS    |
| 16QAM                     | LCH     | 25.02         | PASS    |
|                           | MCH     | 25.36         | PASS    |
|                           | HCH     | 25.17         | PASS    |
| Channel Bandwidth: 20 MHz |         |               |         |
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 25.13         | PASS    |
|                           | MCH     | 24.98         | PASS    |
|                           | HCH     | 24.47         | PASS    |
| 16QAM                     | LCH     | 24.69         | PASS    |
|                           | MCH     | 24.58         | PASS    |
|                           | HCH     | 25.01         | PASS    |

## FDD-LTE Band 5

| Channel Bandwidth: 1.4 MHz |         |             |         |
|----------------------------|---------|-------------|---------|
| Modulation                 | Channel | E.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.12       | PASS    |
|                            | MCH     | 24.25       | PASS    |
|                            | HCH     | 24.13       | PASS    |
| 16QAM                      | LCH     | 24.28       | PASS    |
|                            | MCH     | 24.31       | PASS    |
|                            | HCH     | 24.19       | PASS    |
| Channel Bandwidth: 3 MHz   |         |             |         |
| Modulation                 | Channel | E.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.08       | PASS    |
|                            | MCH     | 24.16       | PASS    |
|                            | HCH     | 24.18       | PASS    |
| 16QAM                      | LCH     | 24.24       | PASS    |
|                            | MCH     | 24.21       | PASS    |
|                            | HCH     | 24.08       | PASS    |
| Channel Bandwidth: 5 MHz   |         |             |         |
| Modulation                 | Channel | E.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.11       | PASS    |
|                            | MCH     | 24.38       | PASS    |
|                            | HCH     | 24.45       | PASS    |
| 16QAM                      | LCH     | 24.42       | PASS    |
|                            | MCH     | 24.63       | PASS    |
|                            | HCH     | 24.17       | PASS    |
| Channel Bandwidth: 10 MHz  |         |             |         |
| Modulation                 | Channel | E.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 23.96       | PASS    |
|                            | MCH     | 24.12       | PASS    |
|                            | HCH     | 24.05       | PASS    |
| 16QAM                      | LCH     | 24.18       | PASS    |
|                            | MCH     | 23.95       | PASS    |
|                            | HCH     | 24.11       | PASS    |

## FDD-LTE Band 12

| Channel Bandwidth: 1.4MHz |         |             |         |
|---------------------------|---------|-------------|---------|
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 23.87       | PASS    |
|                           | MCH     | 24.12       | PASS    |
|                           | HCH     | 23.91       | PASS    |
| 16QAM                     | LCH     | 24.05       | PASS    |
|                           | MCH     | 23.87       | PASS    |
|                           | HCH     | 24.11       | PASS    |
| Channel Bandwidth: 3 MHz  |         |             |         |
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 24.04       | PASS    |
|                           | MCH     | 23.98       | PASS    |
|                           | HCH     | 24.11       | PASS    |
| 16QAM                     | LCH     | 23.95       | PASS    |
|                           | MCH     | 24.15       | PASS    |
|                           | HCH     | 23.96       | PASS    |
| Channel Bandwidth: 5 MHz  |         |             |         |
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 23.94       | PASS    |
|                           | MCH     | 24.11       | PASS    |
|                           | HCH     | 23.95       | PASS    |
| 16QAM                     | LCH     | 24.12       | PASS    |
|                           | MCH     | 23.93       | PASS    |
|                           | HCH     | 24.04       | PASS    |
| Channel Bandwidth: 10 MHz |         |             |         |
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 23.47       | PASS    |
|                           | MCH     | 23.95       | PASS    |
|                           | HCH     | 23.54       | PASS    |
| 16QAM                     | LCH     | 23.69       | PASS    |
|                           | MCH     | 23.74       | PASS    |
|                           | HCH     | 23.45       | PASS    |

## FDD-LTE Band 13

| Channel Bandwidth: 5 MHz  |         |             |         |
|---------------------------|---------|-------------|---------|
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 25.12       | PASS    |
|                           | MCH     | 25.17       | PASS    |
|                           | HCH     | 25.05       | PASS    |
| 16QAM                     | LCH     | 25.24       | PASS    |
|                           | MCH     | 25.17       | PASS    |
|                           | HCH     | 25.09       | PASS    |
| Channel Bandwidth: 10 MHz |         |             |         |
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | MCH     | 25.41       | PASS    |
| 16QAM                     | MCH     | 25.38       | PASS    |

## FDD-LTE Band 25

| Channel Bandwidth: 1.4 MHz |         |               |         |
|----------------------------|---------|---------------|---------|
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.87         | PASS    |
|                            | MCH     | 24.59         | PASS    |
|                            | HCH     | 24.67         | PASS    |
| 16QAM                      | LCH     | 25.02         | PASS    |
|                            | MCH     | 25.13         | PASS    |
|                            | HCH     | 24.94         | PASS    |
| Channel Bandwidth: 3 MHz   |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.69         | PASS    |
|                            | MCH     | 24.79         | PASS    |
|                            | HCH     | 25.01         | PASS    |
| 16QAM                      | LCH     | 25.12         | PASS    |
|                            | MCH     | 24.86         | PASS    |
|                            | HCH     | 24.67         | PASS    |
| Channel Bandwidth: 5 MHz   |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.85         | PASS    |
|                            | MCH     | 24.79         | PASS    |
|                            | HCH     | 24.69         | PASS    |
| 16QAM                      | LCH     | 25.01         | PASS    |
|                            | MCH     | 25.12         | PASS    |
|                            | HCH     | 25.07         | PASS    |
| Channel Bandwidth: 10 MHz  |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.69         | PASS    |
|                            | MCH     | 24.12         | PASS    |
|                            | HCH     | 24.06         | PASS    |
| 16QAM                      | LCH     | 24.18         | PASS    |
|                            | MCH     | 24.24         | PASS    |
|                            | HCH     | 24.19         | PASS    |

| Channel Bandwidth: 15 MHz |         |               |         |
|---------------------------|---------|---------------|---------|
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 24.47         | PASS    |
|                           | MCH     | 24.62         | PASS    |
|                           | HCH     | 24.79         | PASS    |
| 16QAM                     | LCH     | 24.65         | PASS    |
|                           | MCH     | 24.32         | PASS    |
|                           | HCH     | 24.79         | PASS    |
| Channel Bandwidth: 20 MHz |         |               |         |
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 24.98         | PASS    |
|                           | MCH     | 24.71         | PASS    |
|                           | HCH     | 24.52         | PASS    |
| 16QAM                     | LCH     | 24.67         | PASS    |
|                           | MCH     | 24.58         | PASS    |
|                           | HCH     | 24.79         | PASS    |



## FDD-LTE Band 26 (824-849MHz)

| Channel Bandwidth: 1.4 MHz |         |             |         |
|----------------------------|---------|-------------|---------|
| Modulation                 | Channel | E.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 22.75       | PASS    |
|                            | MCH     | 22.53       | PASS    |
|                            | HCH     | 22.74       | PASS    |
| 16QAM                      | LCH     | 22.63       | PASS    |
|                            | MCH     | 22.78       | PASS    |
|                            | HCH     | 22.65       | PASS    |
| Channel Bandwidth: 3 MHz   |         |             |         |
| Modulation                 | Channel | E.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 22.45       | PASS    |
|                            | MCH     | 22.71       | PASS    |
|                            | HCH     | 22.36       | PASS    |
| 16QAM                      | LCH     | 22.82       | PASS    |
|                            | MCH     | 22.14       | PASS    |
|                            | HCH     | 22.98       | PASS    |
| Channel Bandwidth: 5 MHz   |         |             |         |
| Modulation                 | Channel | E.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 22.61       | PASS    |
|                            | MCH     | 22.74       | PASS    |
|                            | HCH     | 22.58       | PASS    |
| 16QAM                      | LCH     | 22.32       | PASS    |
|                            | MCH     | 22.47       | PASS    |
|                            | HCH     | 22.98       | PASS    |
| Channel Bandwidth: 10 MHz  |         |             |         |
| Modulation                 | Channel | E.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 22.41       | PASS    |
|                            | MCH     | 22.05       | PASS    |
|                            | HCH     | 22.69       | PASS    |
| 16QAM                      | LCH     | 22.14       | PASS    |
|                            | MCH     | 22.87       | PASS    |
|                            | HCH     | 22.32       | PASS    |

| Channel Bandwidth: 15 MHz |         |             |         |
|---------------------------|---------|-------------|---------|
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 23.14       | PASS    |
|                           | MCH     | 23.02       | PASS    |
|                           | HCH     | 23.08       | PASS    |
| 16QAM                     | LCH     | 23.14       | PASS    |
|                           | MCH     | 23.05       | PASS    |
|                           | HCH     | 23.18       | PASS    |

## TDD-LTE Band 41

| Channel Bandwidth: 5 MHz  |         |               |         |
|---------------------------|---------|---------------|---------|
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 26.98         | PASS    |
|                           | MCH     | 27.01         | PASS    |
|                           | HCH     | 26.45         | PASS    |
| 16QAM                     | LCH     | 26.75         | PASS    |
|                           | MCH     | 26.52         | PASS    |
|                           | HCH     | 27.32         | PASS    |
| Channel Bandwidth: 10 MHz |         |               |         |
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 27.45         | PASS    |
|                           | MCH     | 27.12         | PASS    |
|                           | HCH     | 27.05         | PASS    |
| 16QAM                     | LCH     | 26.97         | PASS    |
|                           | MCH     | 26.84         | PASS    |
|                           | HCH     | 26.74         | PASS    |
| Channel Bandwidth: 15 MHz |         |               |         |
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 26.78         | PASS    |
|                           | MCH     | 26.86         | PASS    |
|                           | HCH     | 26.79         | PASS    |
| 16QAM                     | LCH     | 26.89         | PASS    |
|                           | MCH     | 26.74         | PASS    |
|                           | HCH     | 26.99         | PASS    |
| Channel Bandwidth: 20 MHz |         |               |         |
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 26.52         | PASS    |
|                           | MCH     | 26.79         | PASS    |
|                           | HCH     | 26.47         | PASS    |
| 16QAM                     | LCH     | 26.98         | PASS    |
|                           | MCH     | 26.74         | PASS    |
|                           | HCH     | 26.87         | PASS    |

## FDD-LTE Band 66

| Channel Bandwidth: 1.4 MHz |         |               |         |
|----------------------------|---------|---------------|---------|
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 25.12         | PASS    |
|                            | MCH     | 25.08         | PASS    |
|                            | HCH     | 25.19         | PASS    |
| 16QAM                      | LCH     | 25.23         | PASS    |
|                            | MCH     | 25.08         | PASS    |
|                            | HCH     | 25.15         | PASS    |
| Channel Bandwidth: 3 MHz   |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 25.13         | PASS    |
|                            | MCH     | 25.08         | PASS    |
|                            | HCH     | 25.16         | PASS    |
| 16QAM                      | LCH     | 25.22         | PASS    |
|                            | MCH     | 25.18         | PASS    |
|                            | HCH     | 25.04         | PASS    |
| Channel Bandwidth: 5 MHz   |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 24.92         | PASS    |
|                            | MCH     | 24.88         | PASS    |
|                            | HCH     | 24.75         | PASS    |
| 16QAM                      | LCH     | 25.13         | PASS    |
|                            | MCH     | 25.05         | PASS    |
|                            | HCH     | 25.17         | PASS    |
| Channel Bandwidth: 10 MHz  |         |               |         |
| Modulation                 | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                       | LCH     | 25.18         | PASS    |
|                            | MCH     | 25.32         | PASS    |
|                            | HCH     | 25.01         | PASS    |
| 16QAM                      | LCH     | 24.74         | PASS    |
|                            | MCH     | 24.64         | PASS    |
|                            | HCH     | 24.77         | PASS    |

| Channel Bandwidth: 15 MHz |         |               |         |
|---------------------------|---------|---------------|---------|
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 24.82         | PASS    |
|                           | MCH     | 24.75         | PASS    |
|                           | HCH     | 24.74         | PASS    |
| 16QAM                     | LCH     | 24.56         | PASS    |
|                           | MCH     | 24.78         | PASS    |
|                           | HCH     | 24.62         | PASS    |
| Channel Bandwidth: 20 MHz |         |               |         |
| Modulation                | Channel | E.i.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 24.85         | PASS    |
|                           | MCH     | 24.74         | PASS    |
|                           | HCH     | 24.48         | PASS    |
| 16QAM                     | LCH     | 24.98         | PASS    |
|                           | MCH     | 24.75         | PASS    |
|                           | HCH     | 24.65         | PASS    |

## FDD-LTE Band 71

| Channel Bandwidth: 5 MHz  |         |             |         |
|---------------------------|---------|-------------|---------|
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 26.12       | PASS    |
|                           | MCH     | 26.08       | PASS    |
|                           | HCH     | 26.08       | PASS    |
| 16QAM                     | LCH     | 26.12       | PASS    |
|                           | MCH     | 26.13       | PASS    |
|                           | HCH     | 26.28       | PASS    |
| Channel Bandwidth: 10 MHz |         |             |         |
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 26.15       | PASS    |
|                           | MCH     | 26.47       | PASS    |
|                           | HCH     | 26.52       | PASS    |
| 16QAM                     | LCH     | 26.25       | PASS    |
|                           | MCH     | 25.97       | PASS    |
|                           | HCH     | 25.82       | PASS    |
| Channel Bandwidth: 15 MHz |         |             |         |
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 25.78       | PASS    |
|                           | MCH     | 26.05       | PASS    |
|                           | HCH     | 26.01       | PASS    |
| 16QAM                     | LCH     | 25.62       | PASS    |
|                           | MCH     | 25.83       | PASS    |
|                           | HCH     | 25.69       | PASS    |
| Channel Bandwidth: 20 MHz |         |             |         |
| Modulation                | Channel | E.r.p [dBm] | Verdict |
| QPSK                      | LCH     | 26.14       | PASS    |
|                           | MCH     | 26.05       | PASS    |
|                           | HCH     | 26.12       | PASS    |
| 16QAM                     | LCH     | 25.98       | PASS    |
|                           | MCH     | 25.74       | PASS    |
|                           | HCH     | 25.84       | PASS    |

**Max. Conducted Output Power**

Please refer to Appendix A: Average Power Output Data

Test result: Pass

Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)

Page 30 of 62

## 4. Peak-to-average Ratio (PAR) of Transmitter

---

### 4.1 Standard Applicable

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

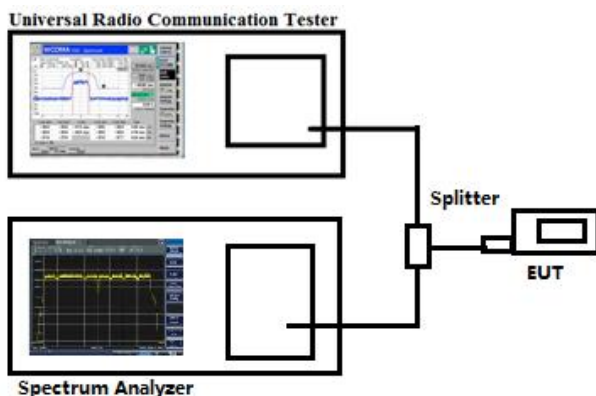
According to §27.50(B), the peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

### 4.2 Test Procedure

According with KDB 971168

1. The signal analyzer's CCDF measurement profile is enabled.
2. Frequency = carrier center frequency.
3. Measurement BW > Emission bandwidth of signal.
4. The signal analyzer was set to collect one million samples to generate the CCDF curve.
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power.

Test Configuration for the emission bandwidth testing:



### 4.3 Summary of Test Results

Please refer to Appendix B: Peak-to-Average Ratio

Test result: Pass

Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)

## 5. Emission Bandwidth

---

### 5.1 Standard Applicable

According to §22.917(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

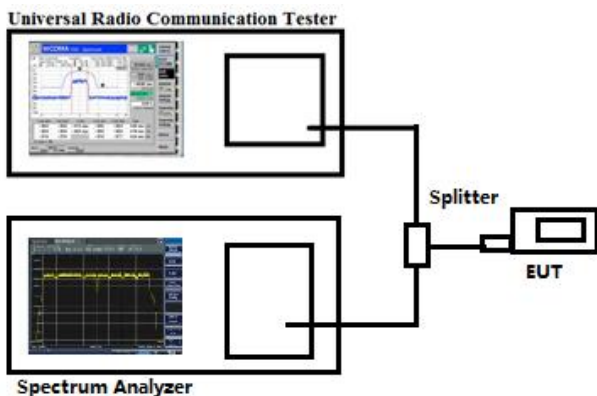
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

According to §27.53, the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

### 5.2 Test Procedure

According to §22.917(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

Test Configuration for the emission bandwidth testing:



### 5.3 Summary of Test Results/Plots

Please refer to Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test result: Pass



## 6. Out of Band Emissions at Antenna Terminal

---

### 6.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

According to §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.

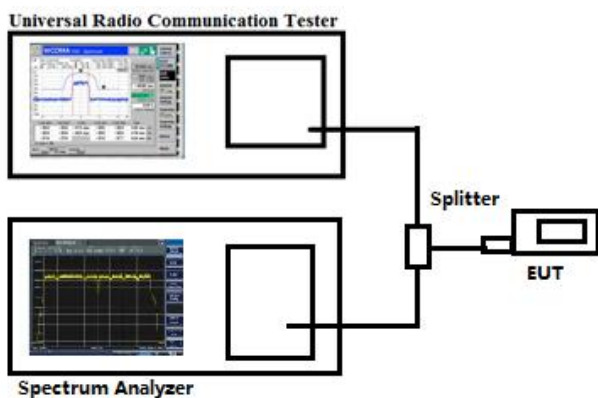
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB.

According to §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5MHz.

### 6.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10<sup>th</sup> harmonic.

Test Configuration for the out of band emissions testing:



### **6.3 Summary of Test Results/Plots**

Please refer to Appendix D & E: Band Edge & Conducted Spurious Emission

Test result: Pass

## 7. Spurious Radiated Emissions

---

### 7.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

According to §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.

According to §27.53(g) the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB.

### 7.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA-603-E and ANSI C63.4-2014 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious attenuation limit in dB =  $43 + 10 \log_{10}(\text{power out in Watts})$

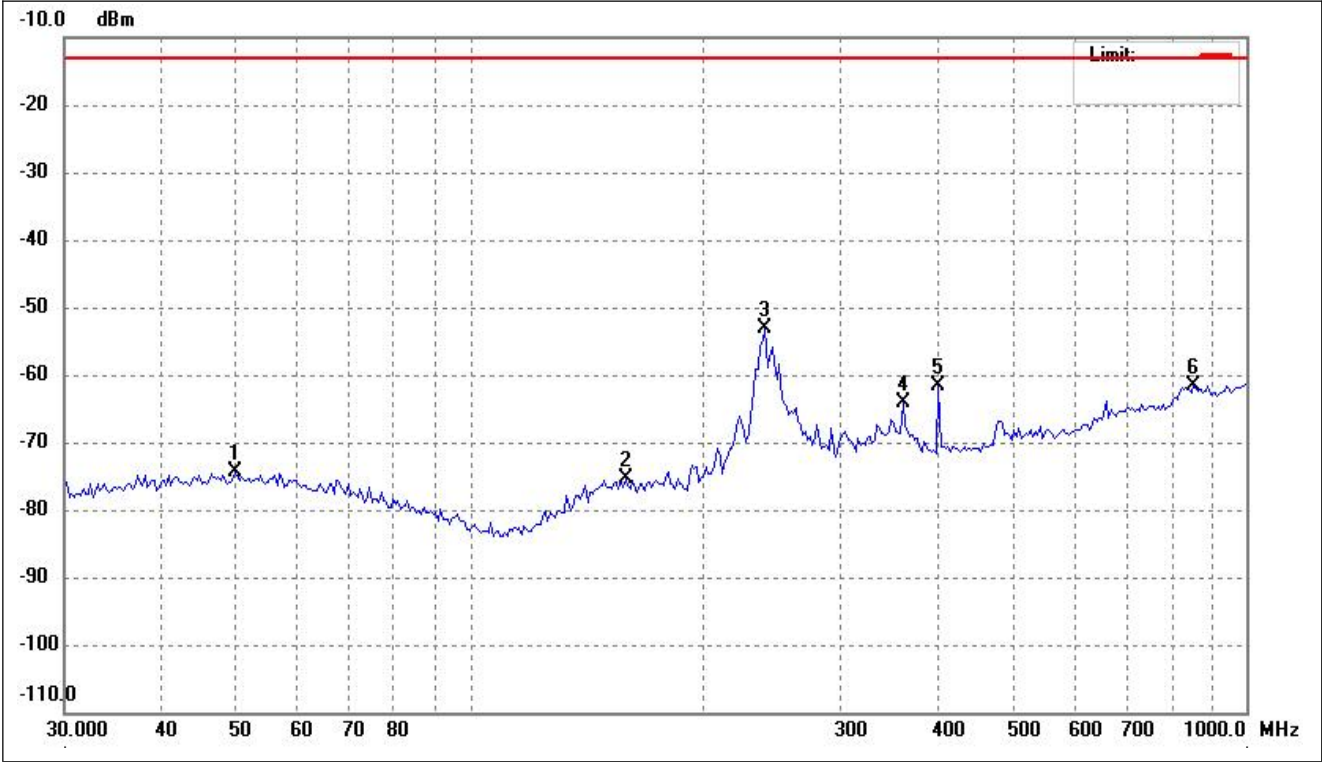
### 7.3 Summary of Test Results/Plots

*Note: 1. this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

*2. All test modes (different bandwidth and different modulation) are performed, but only the worst case is recorded in this report.*

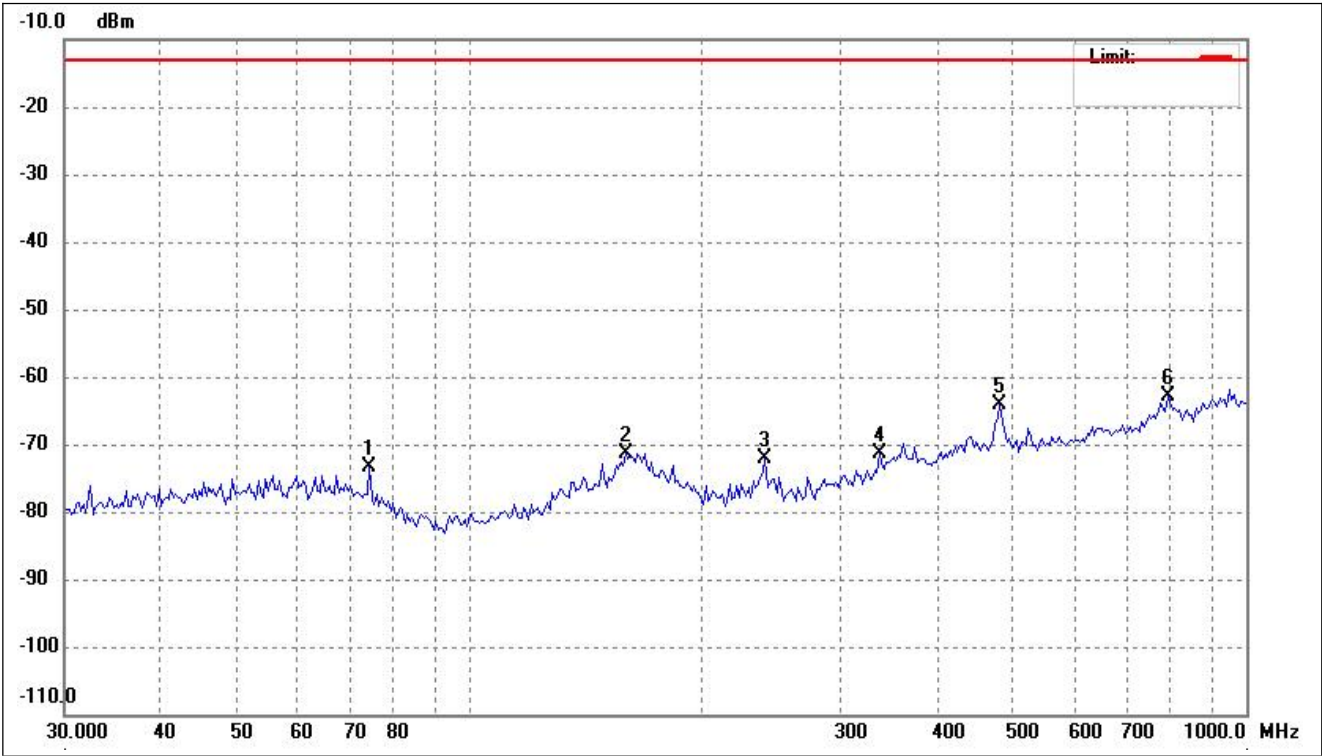
➤ Spurious Emissions Below 1GHz

|           |                |           |            |
|-----------|----------------|-----------|------------|
| Test Mode | FDD_LTE Band 2 | Polarity: | Horizontal |
|-----------|----------------|-----------|------------|



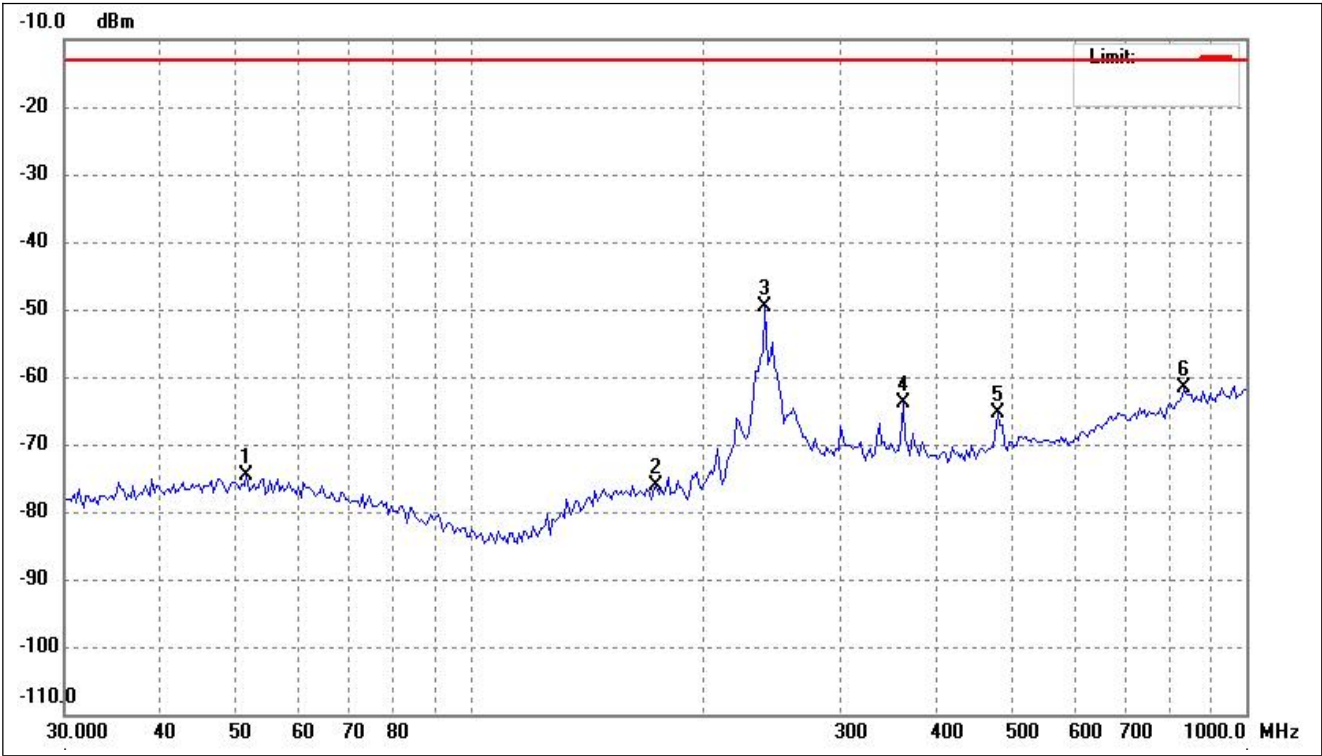
| No. | Frequency (MHz) | Reading (dBm) | Correct (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|--------------|--------------|-------------|-------------|--------|
| 1   | 49.7571         | -77.83        | 3.48         | -74.35       | -13.00      | -61.35      | ERP    |
| 2   | 158.6399        | -76.43        | 0.97         | -75.46       | -13.00      | -62.46      | ERP    |
| 3   | 240.1442        | -60.01        | 6.86         | -53.15       | -13.00      | -40.15      | ERP    |
| 4   | 360.9775        | -68.72        | 4.54         | -64.18       | -13.00      | -51.18      | ERP    |
| 5   | 401.1050        | -66.18        | 4.67         | -61.51       | -13.00      | -48.51      | ERP    |
| 6   | 856.7597        | -75.06        | 13.42        | -61.64       | -13.00      | -48.64      | ERP    |

|           |                |           |          |
|-----------|----------------|-----------|----------|
| Test Mode | FDD_LTE Band 2 | Polarity: | Vertical |
|-----------|----------------|-----------|----------|



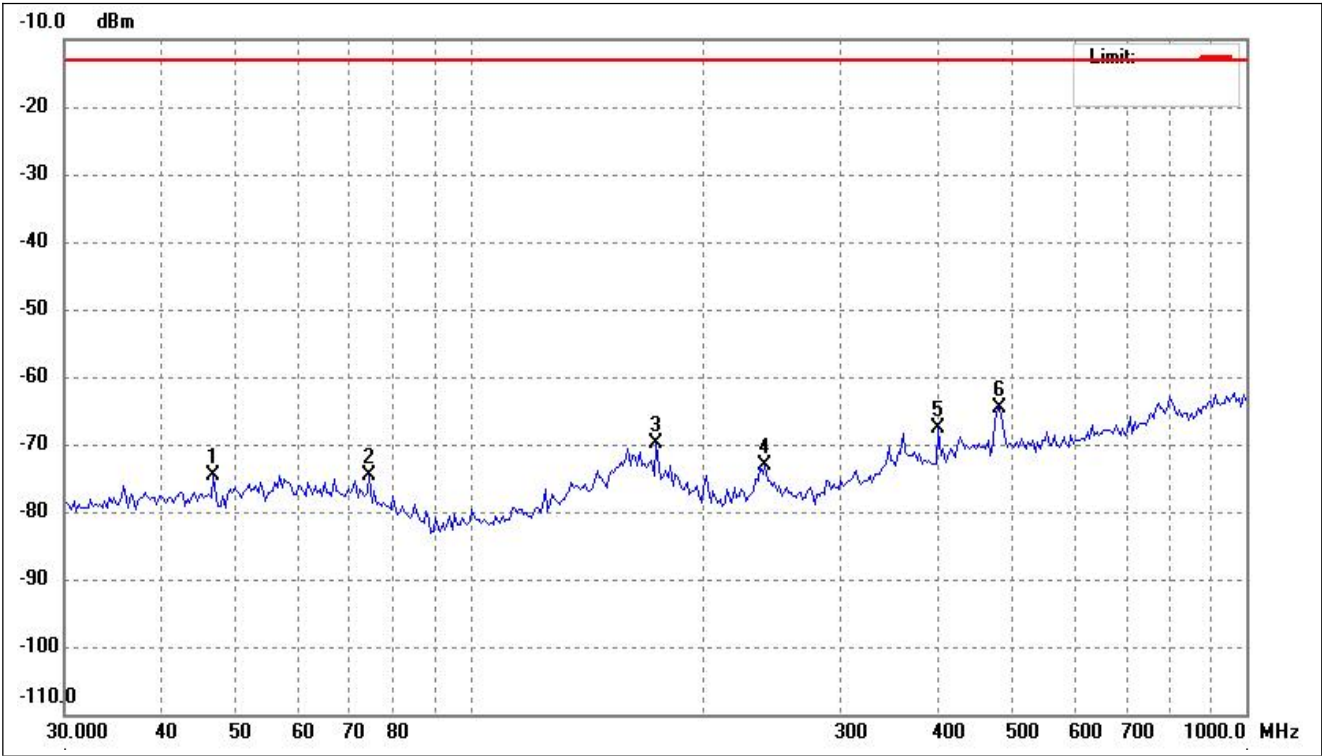
| No. | Frequency (MHz) | Reading (dBm) | Correct (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|--------------|--------------|-------------|-------------|--------|
| 1   | 74.2696         | -75.41        | 1.94         | -73.47       | -13.00      | -60.47      | ERP    |
| 2   | 158.6399        | -78.64        | 7.39         | -71.25       | -13.00      | -58.25      | ERP    |
| 3   | 240.1442        | -73.13        | 0.93         | -72.20       | -13.00      | -59.20      | ERP    |
| 4   | 336.4817        | -75.53        | 4.06         | -71.47       | -13.00      | -58.47      | ERP    |
| 5   | 481.5112        | -71.06        | 6.84         | -64.22       | -13.00      | -51.22      | ERP    |
| 6   | 793.0281        | -75.41        | 12.48        | -62.93       | -13.00      | -49.93      | ERP    |

|           |                |           |            |
|-----------|----------------|-----------|------------|
| Test Mode | FDD_LTE Band 4 | Polarity: | Horizontal |
|-----------|----------------|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 51.5365            | -78.05           | 3.31          | -74.74          | -13.00         | -61.74         | ERP    |
| 2   | 173.8147           | -77.09           | 0.98          | -76.11          | -13.00         | -63.11         | ERP    |
| 3   | 240.1442           | -56.44           | 6.86          | -49.58          | -13.00         | -36.58         | ERP    |
| 4   | 360.9775           | -68.44           | 4.54          | -63.90          | -13.00         | -50.90         | ERP    |
| 5   | 478.1394           | -71.98           | 6.71          | -65.27          | -13.00         | -52.27         | ERP    |
| 6   | 833.0127           | -74.95           | 13.37         | -61.58          | -13.00         | -48.58         | ERP    |

|           |                |           |          |
|-----------|----------------|-----------|----------|
| Test Mode | FDD_LTE Band 4 | Polarity: | Vertical |
|-----------|----------------|-----------|----------|



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 46.7077            | -77.74           | 3.19          | -74.55          | -13.00         | -61.55         | ERP    |
| 2   | 74.2696            | -76.60           | 1.94          | -74.66          | -13.00         | -61.66         | ERP    |
| 3   | 173.8147           | -75.31           | 5.50          | -69.81          | -13.00         | -56.81         | ERP    |
| 4   | 240.1442           | -74.01           | 0.93          | -73.08          | -13.00         | -60.08         | ERP    |
| 5   | 401.1050           | -73.10           | 5.39          | -67.71          | -13.00         | -54.71         | ERP    |
| 6   | 481.5112           | -71.54           | 6.84          | -64.70          | -13.00         | -51.70         | ERP    |

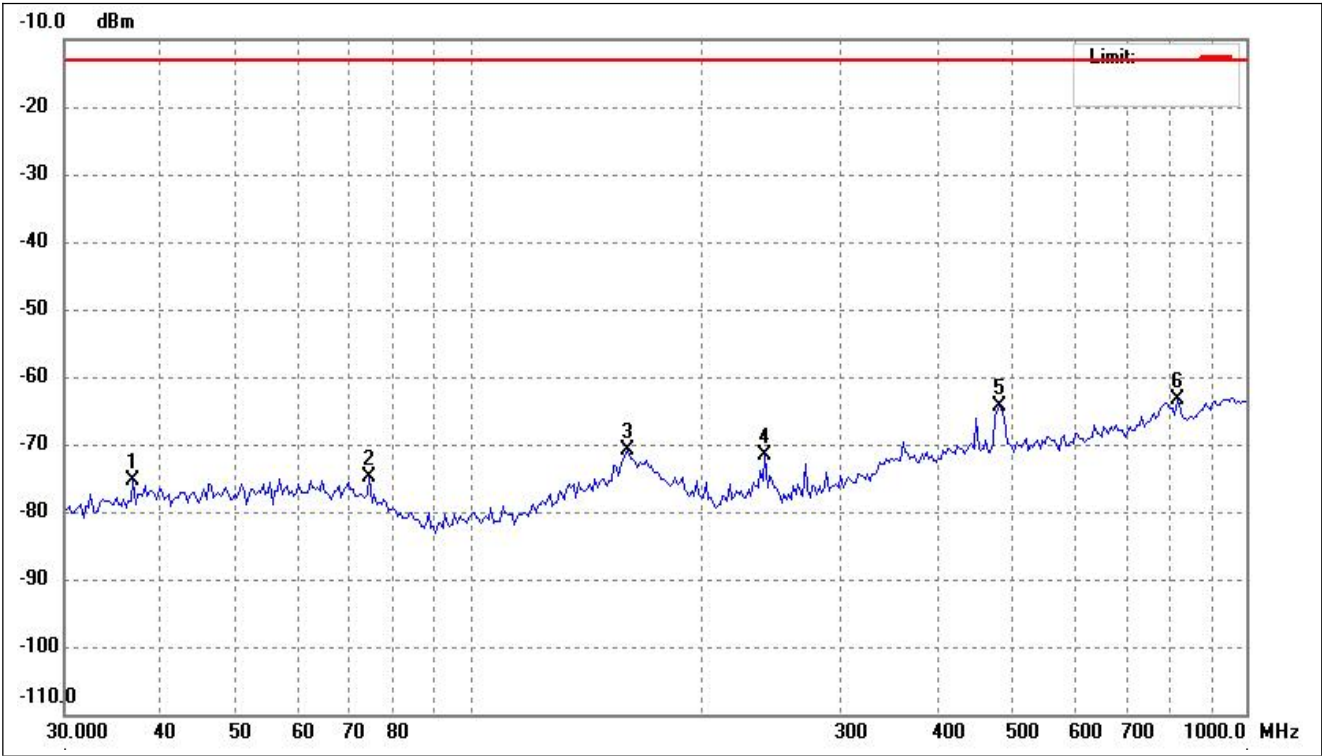
|           |                |           |            |
|-----------|----------------|-----------|------------|
| Test Mode | FDD_LTE Band 5 | Polarity: | Horizontal |
|-----------|----------------|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 51.8998            | -78.48           | 3.27          | -75.21          | -13.00         | -62.21         | ERP    |
| 2   | 178.7697           | -75.16           | 0.98          | -74.18          | -13.00         | -61.18         | ERP    |
| 3   | 240.1442           | -59.94           | 6.86          | -53.08          | -13.00         | -40.08         | ERP    |
| 4   | 360.9774           | -67.87           | 4.54          | -63.33          | -13.00         | -50.33         | ERP    |
| 5   | 481.5112           | -73.19           | 6.80          | -66.39          | -13.00         | -53.39         | ERP    |
| 6   | 827.1794           | -74.31           | 13.24         | -61.07          | -13.00         | -48.07         | ERP    |

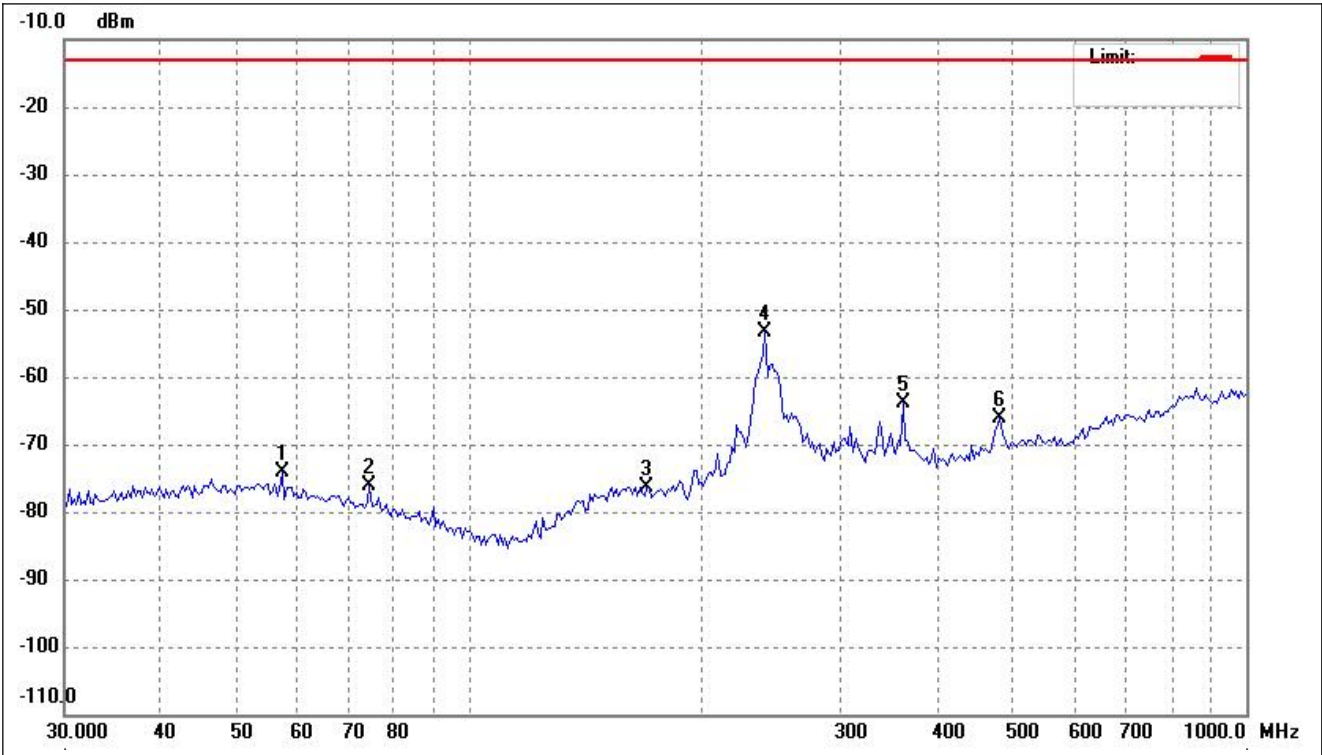


|           |                |           |          |
|-----------|----------------|-----------|----------|
| Test Mode | FDD_LTE Band 5 | Polarity: | Vertical |
|-----------|----------------|-----------|----------|



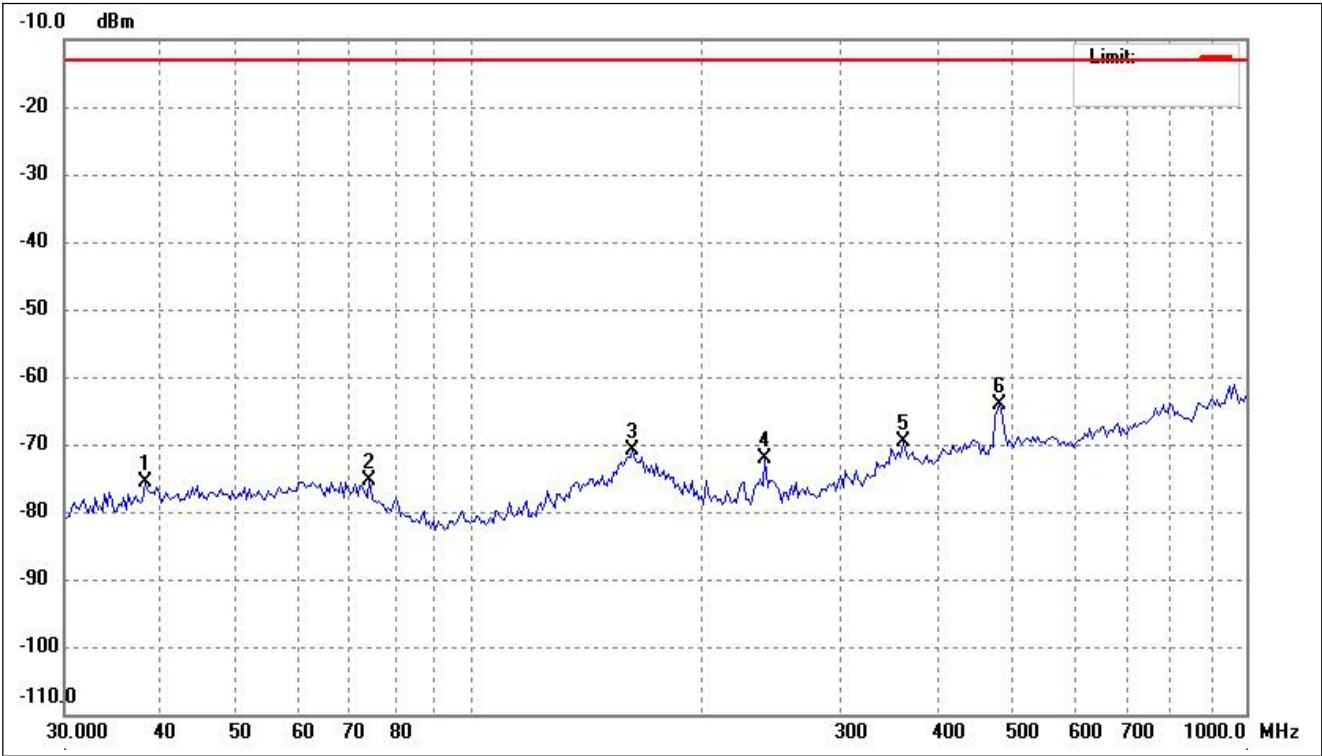
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 36.7811            | -77.50           | 2.24          | -75.26          | -13.00         | -62.26         | ERP    |
| 2   | 74.2696            | -76.69           | 1.94          | -74.75          | -13.00         | -61.75         | ERP    |
| 3   | 159.7586           | -78.78           | 7.83          | -70.95          | -13.00         | -57.95         | ERP    |
| 4   | 240.1442           | -72.56           | 0.93          | -71.63          | -13.00         | -58.63         | ERP    |
| 5   | 481.5112           | -71.33           | 6.84          | -64.49          | -13.00         | -51.49         | ERP    |
| 6   | 815.6353           | -75.22           | 11.83         | -63.39          | -13.00         | -50.39         | ERP    |

|           |                 |           |            |
|-----------|-----------------|-----------|------------|
| Test Mode | FDD_LTE Band 12 | Polarity: | Horizontal |
|-----------|-----------------|-----------|------------|



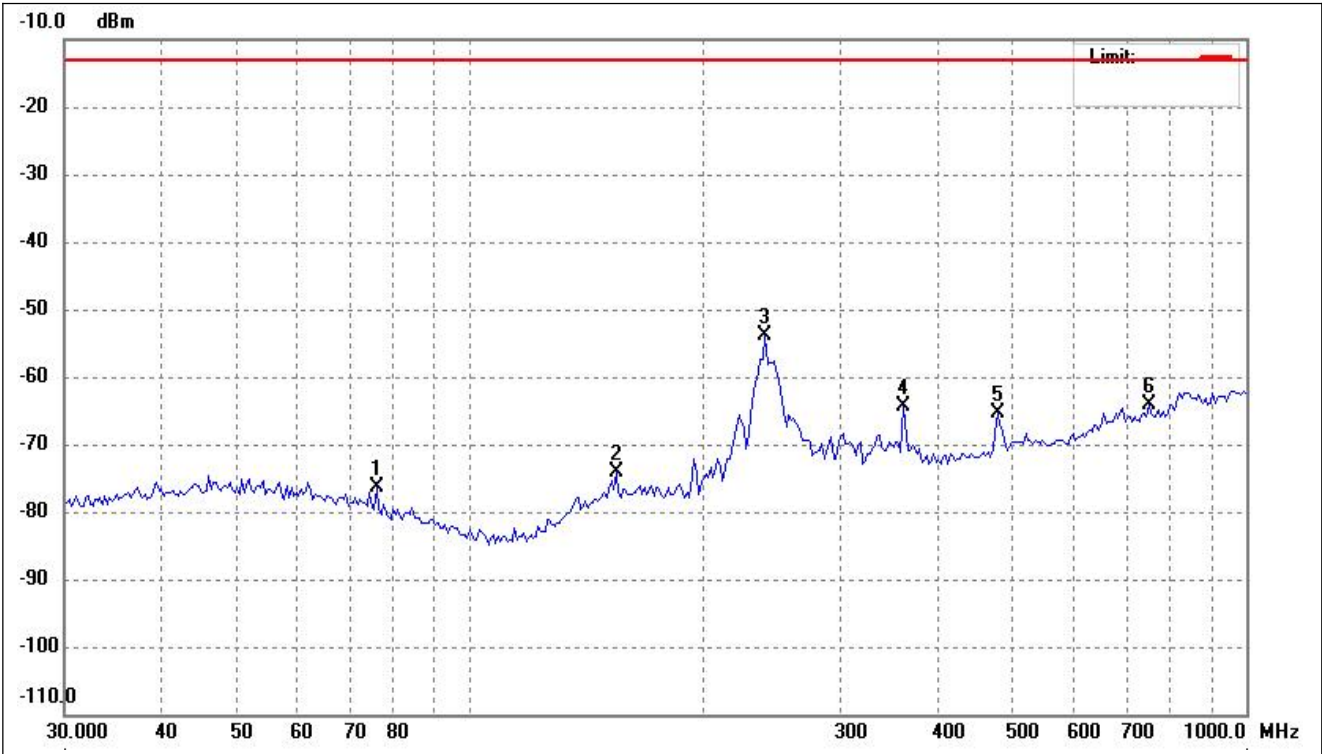
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 57.2654            | -76.86           | 2.62          | -74.24          | -13.00         | -61.24         | ERP    |
| 2   | 74.2696            | -76.32           | 0.32          | -76.00          | -13.00         | -63.00         | ERP    |
| 3   | 168.9970           | -77.24           | 0.98          | -76.26          | -13.00         | -63.26         | ERP    |
| 4   | 240.1442           | -60.30           | 6.86          | -53.44          | -13.00         | -40.44         | ERP    |
| 5   | 360.9775           | -68.36           | 4.54          | -63.82          | -13.00         | -50.82         | ERP    |
| 6   | 481.5112           | -72.91           | 6.80          | -66.11          | -13.00         | -53.11         | ERP    |

|           |                 |           |          |
|-----------|-----------------|-----------|----------|
| Test Mode | FDD_LTE Band 12 | Polarity: | Vertical |
|-----------|-----------------|-----------|----------|



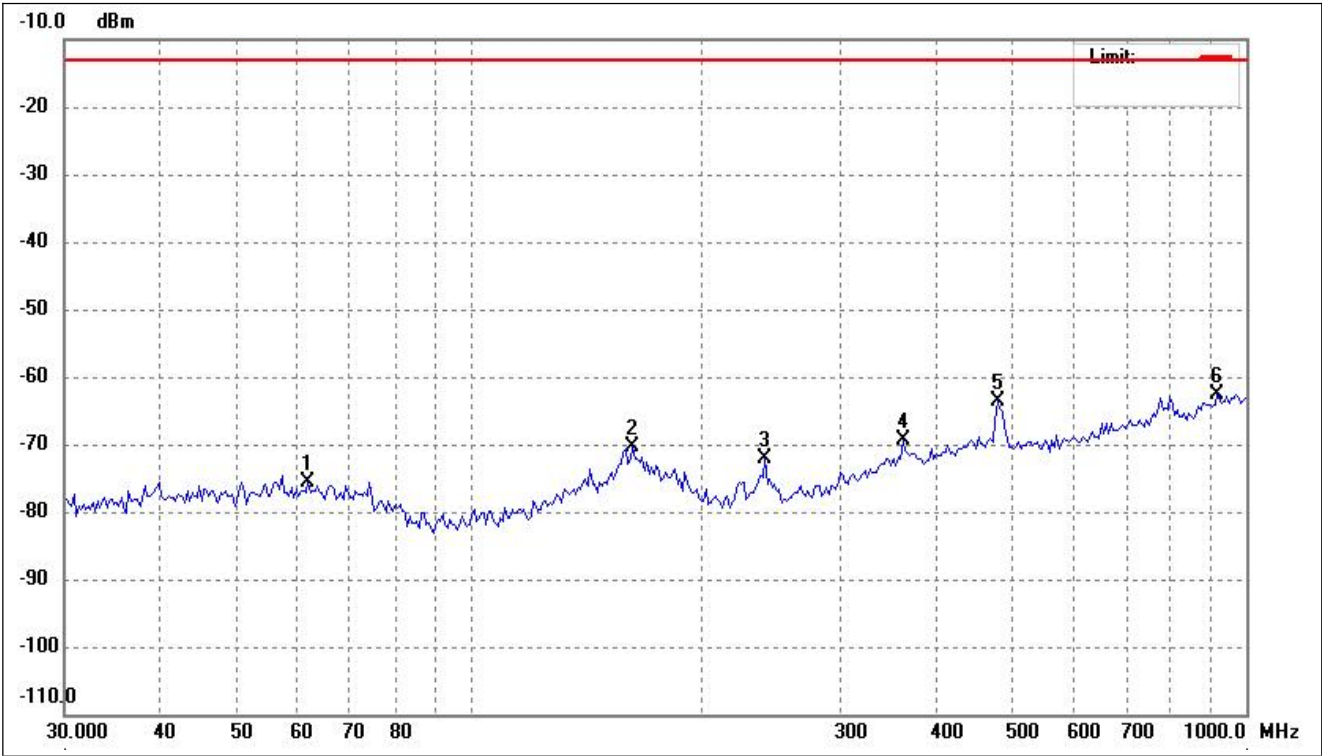
| No. | Frequency (MHz) | Reading (dBm) | Correct (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark |
|-----|-----------------|---------------|--------------|--------------|-------------|-------------|--------|
| 1   | 38.0965         | -78.03        | 2.37         | -75.66       | -13.00      | -62.66      | ERP    |
| 2   | 74.2696         | -77.23        | 1.94         | -75.29       | -13.00      | -62.29      | ERP    |
| 3   | 162.0197        | -78.36        | 7.57         | -70.79       | -13.00      | -57.79      | ERP    |
| 4   | 240.1442        | -73.00        | 0.93         | -72.07       | -13.00      | -59.07      | ERP    |
| 5   | 360.9775        | -74.11        | 4.57         | -69.54       | -13.00      | -56.54      | ERP    |
| 6   | 481.5112        | -70.84        | 6.84         | -64.00       | -13.00      | -51.00      | ERP    |

|           |                 |           |            |
|-----------|-----------------|-----------|------------|
| Test Mode | FDD_LTE Band 13 | Polarity: | Horizontal |
|-----------|-----------------|-----------|------------|



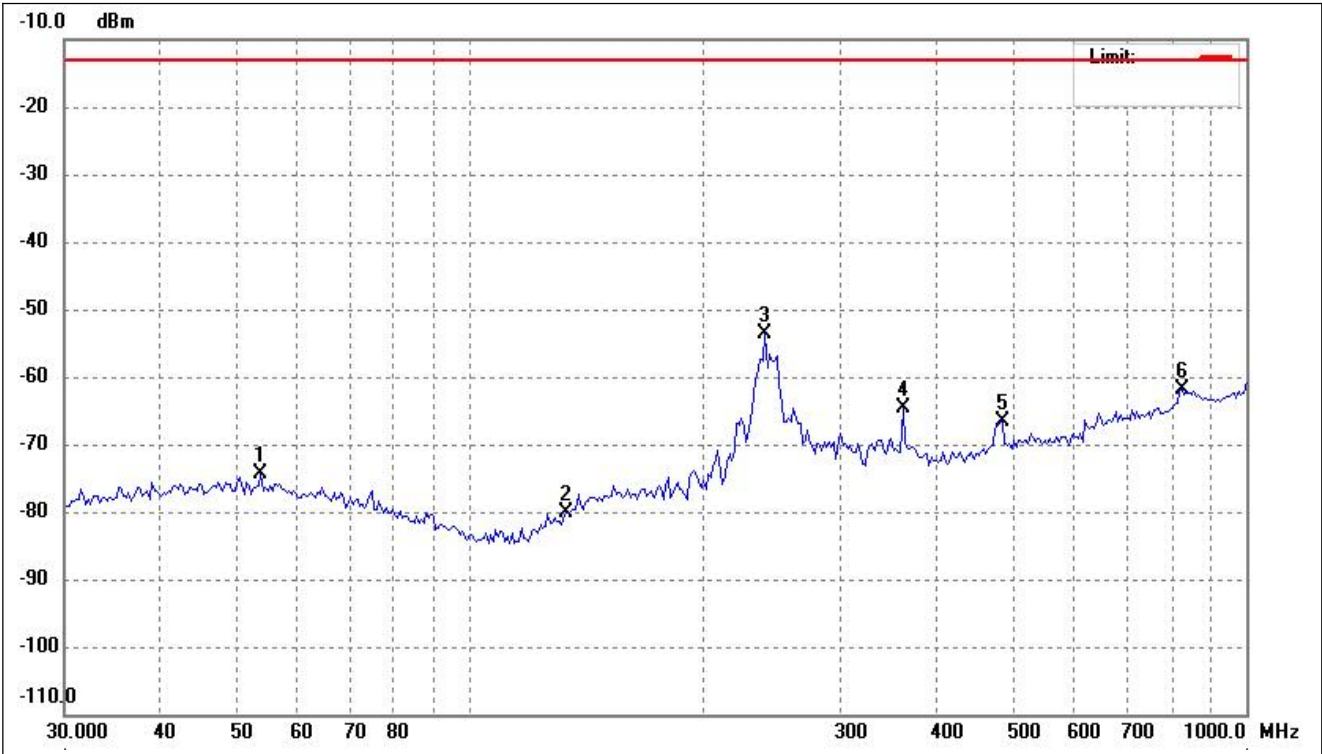
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 75.8519            | -76.50           | 0.04          | -76.46          | -13.00         | -63.46         | ERP    |
| 2   | 154.2428           | -75.15           | 0.92          | -74.23          | -13.00         | -61.23         | ERP    |
| 3   | 240.1442           | -60.63           | 6.86          | -53.77          | -13.00         | -40.77         | ERP    |
| 4   | 360.9774           | -68.92           | 4.54          | -64.38          | -13.00         | -51.38         | ERP    |
| 5   | 478.1394           | -72.16           | 6.71          | -65.45          | -13.00         | -52.45         | ERP    |
| 6   | 749.6761           | -75.27           | 11.18         | -64.09          | -13.00         | -51.09         | ERP    |

|           |                 |           |          |
|-----------|-----------------|-----------|----------|
| Test Mode | FDD_LTE Band 13 | Polarity: | Vertical |
|-----------|-----------------|-----------|----------|



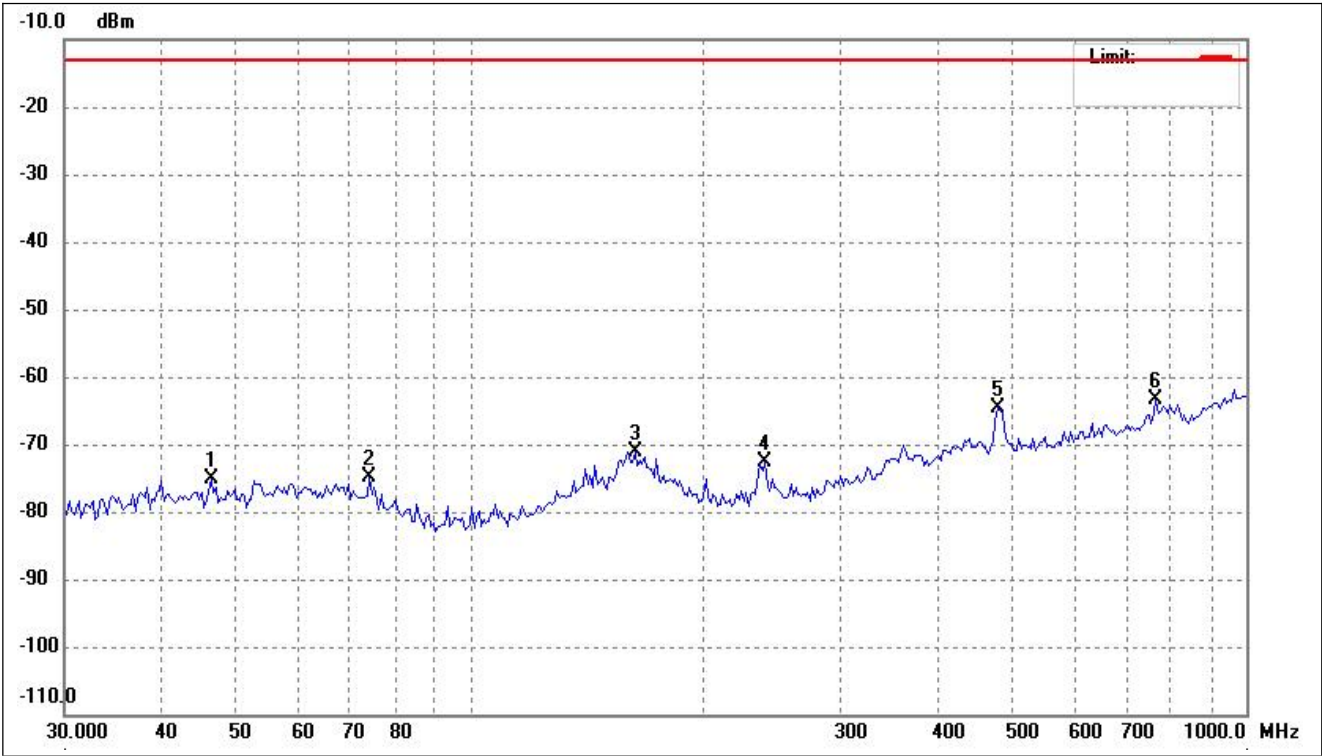
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 61.8676            | -78.89           | 3.26          | -75.63          | -13.00         | -62.63         | ERP    |
| 2   | 162.0197           | -77.92           | 7.57          | -70.35          | -13.00         | -57.35         | ERP    |
| 3   | 240.1442           | -73.00           | 0.93          | -72.07          | -13.00         | -59.07         | ERP    |
| 4   | 360.9775           | -73.87           | 4.57          | -69.30          | -13.00         | -56.30         | ERP    |
| 5   | 478.1394           | -70.30           | 6.78          | -63.52          | -13.00         | -50.52         | ERP    |
| 6   | 919.1315           | -74.89           | 12.39         | -62.50          | -13.00         | -49.50         | ERP    |

|           |                 |           |            |
|-----------|-----------------|-----------|------------|
| Test Mode | FDD_LTE Band 25 | Polarity: | Horizontal |
|-----------|-----------------|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 53.7559            | -77.48           | 3.04          | -74.44          | -13.00         | -61.44         | ERP    |
| 2   | 133.0809           | -78.16           | -1.84         | -80.00          | -13.00         | -67.00         | ERP    |
| 3   | 240.1442           | -60.43           | 6.86          | -53.57          | -13.00         | -40.57         | ERP    |
| 4   | 360.9775           | -69.06           | 4.54          | -64.52          | -13.00         | -51.52         | ERP    |
| 5   | 484.9068           | -73.54           | 6.89          | -66.65          | -13.00         | -53.65         | ERP    |
| 6   | 827.1795           | -75.17           | 13.24         | -61.93          | -13.00         | -48.93         | ERP    |

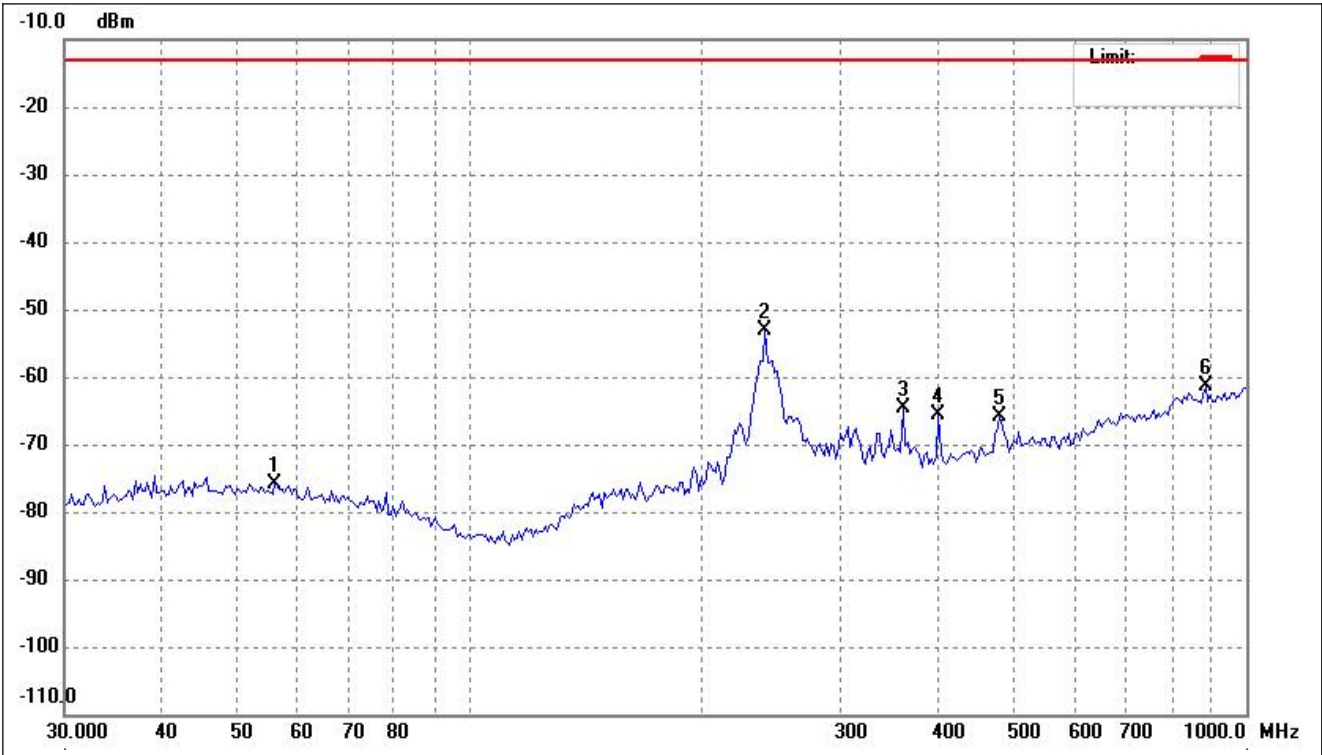
|           |                 |           |          |
|-----------|-----------------|-----------|----------|
| Test Mode | FDD_LTE Band 25 | Polarity: | Vertical |
|-----------|-----------------|-----------|----------|



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 46.3806            | -78.40           | 3.16          | -75.24          | -13.00         | -62.24         | ERP    |
| 2   | 74.2696            | -76.87           | 1.94          | -74.93          | -13.00         | -61.93         | ERP    |
| 3   | 163.1623           | -78.58           | 7.37          | -71.21          | -13.00         | -58.21         | ERP    |
| 4   | 240.1442           | -73.47           | 0.93          | -72.54          | -13.00         | -59.54         | ERP    |
| 5   | 478.1394           | -71.32           | 6.78          | -64.54          | -13.00         | -51.54         | ERP    |
| 6   | 765.6482           | -75.07           | 11.78         | -63.29          | -13.00         | -50.29         | ERP    |



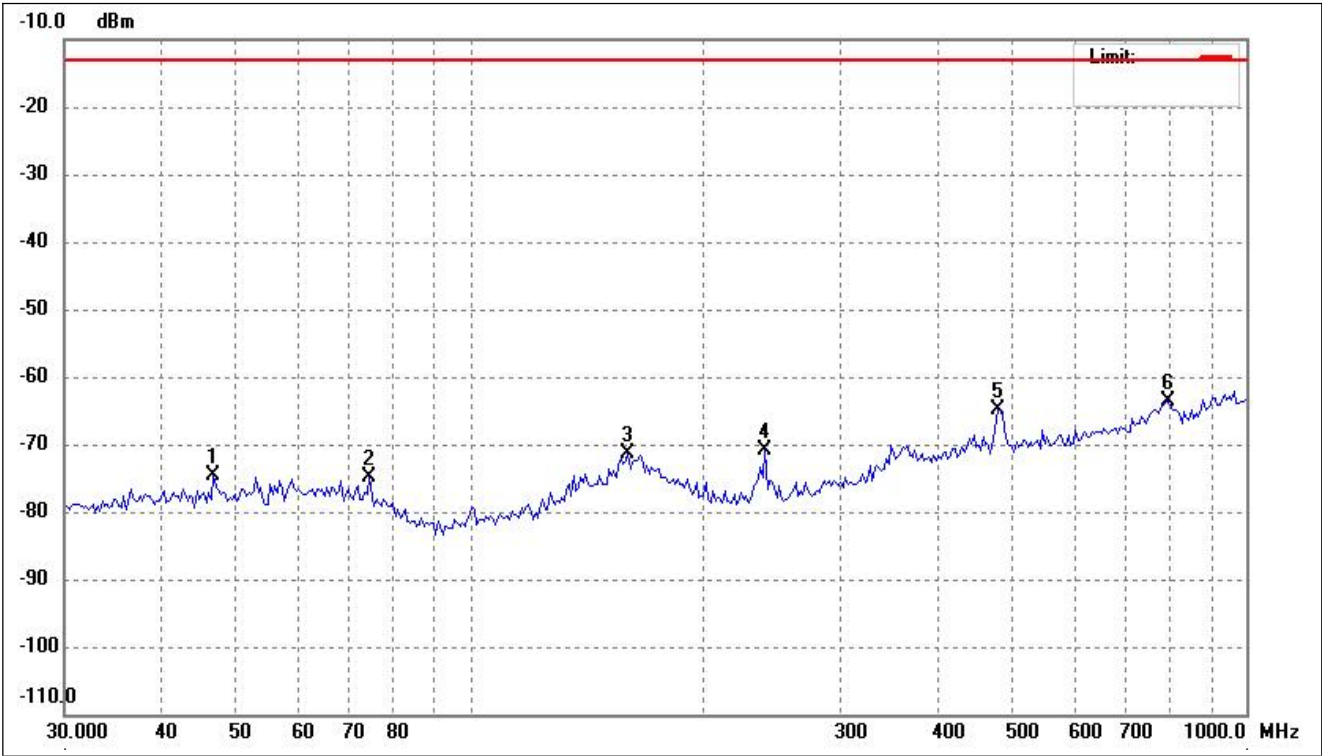
|           |                 |           |            |
|-----------|-----------------|-----------|------------|
| Test Mode | FDD_LTE Band 26 | Polarity: | Horizontal |
|-----------|-----------------|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 56.0708            | -78.54           | 2.76          | -75.78          | -13.00         | -62.78         | ERP    |
| 2   | 240.1442           | -59.94           | 6.86          | -53.08          | -13.00         | -40.08         | ERP    |
| 3   | 360.9775           | -69.11           | 4.54          | -64.57          | -13.00         | -51.57         | ERP    |
| 4   | 401.1050           | -70.21           | 4.67          | -65.54          | -13.00         | -52.54         | ERP    |
| 5   | 481.5112           | -72.79           | 6.80          | -65.99          | -13.00         | -52.99         | ERP    |
| 6   | 887.3978           | -74.52           | 13.20         | -61.32          | -13.00         | -48.32         | ERP    |

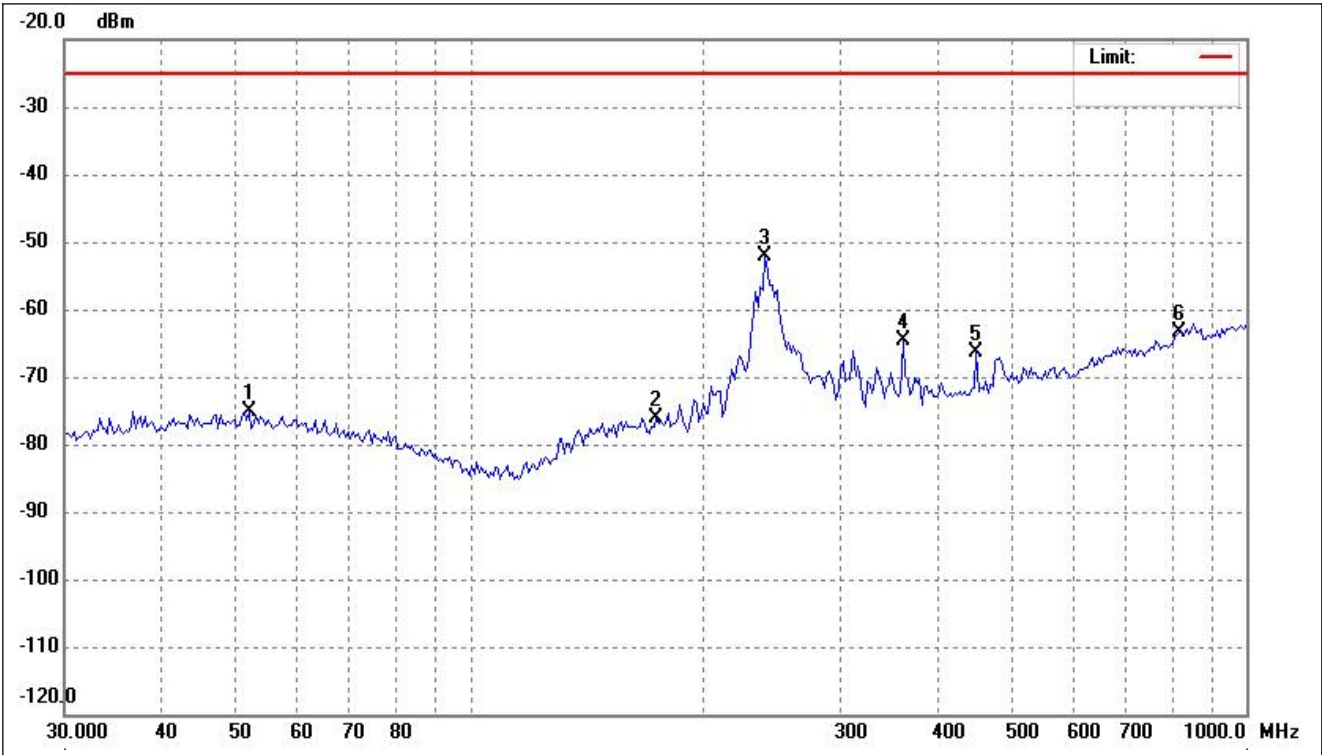


|           |                 |           |          |
|-----------|-----------------|-----------|----------|
| Test Mode | FDD_LTE Band 26 | Polarity: | Vertical |
|-----------|-----------------|-----------|----------|



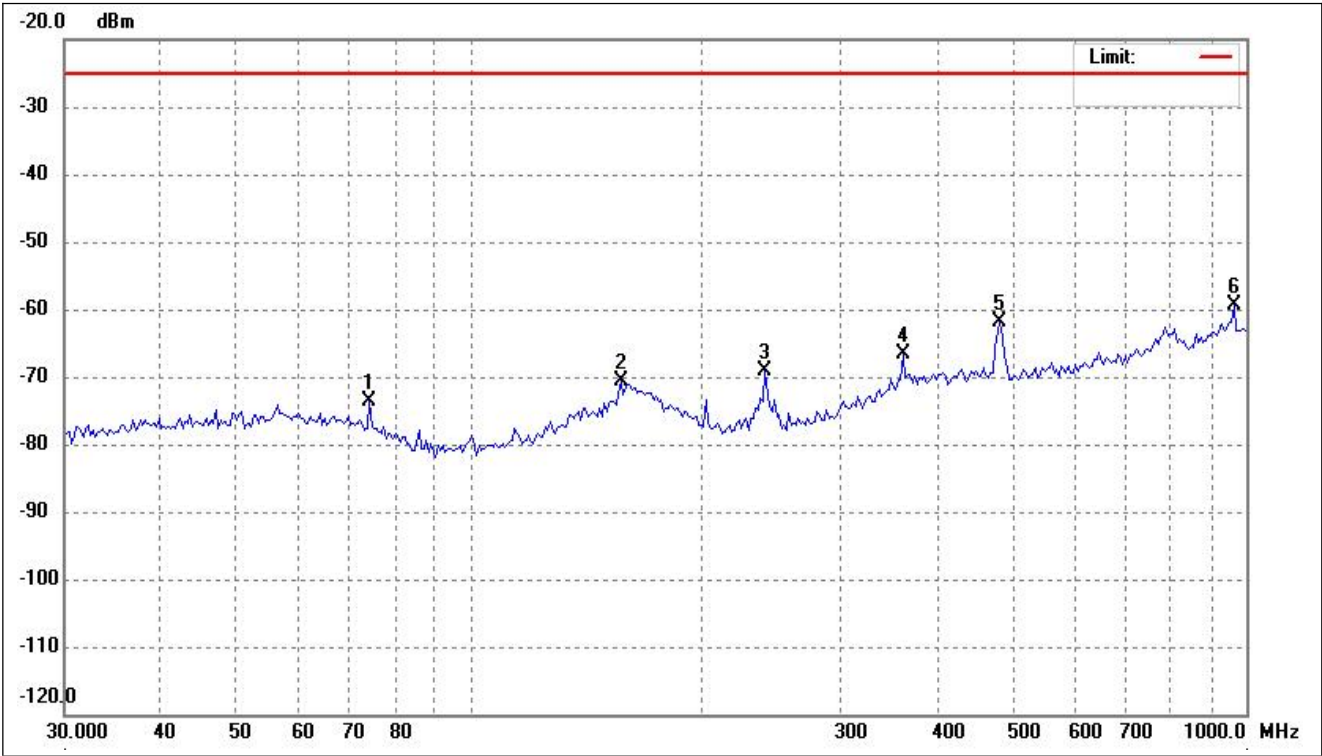
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 46.7077            | -77.81           | 3.19          | -74.62          | -13.00         | -61.62         | ERP    |
| 2   | 74.2696            | -76.87           | 1.94          | -74.93          | -13.00         | -61.93         | ERP    |
| 3   | 159.7586           | -79.32           | 7.83          | -71.49          | -13.00         | -58.49         | ERP    |
| 4   | 240.1442           | -71.76           | 0.93          | -70.83          | -13.00         | -57.83         | ERP    |
| 5   | 478.1394           | -71.65           | 6.78          | -64.87          | -13.00         | -51.87         | ERP    |
| 6   | 793.0281           | -76.14           | 12.48         | -63.66          | -13.00         | -50.66         | ERP    |

|           |                 |           |            |
|-----------|-----------------|-----------|------------|
| Test Mode | TDD_LTE Band 41 | Polarity: | Horizontal |
|-----------|-----------------|-----------|------------|



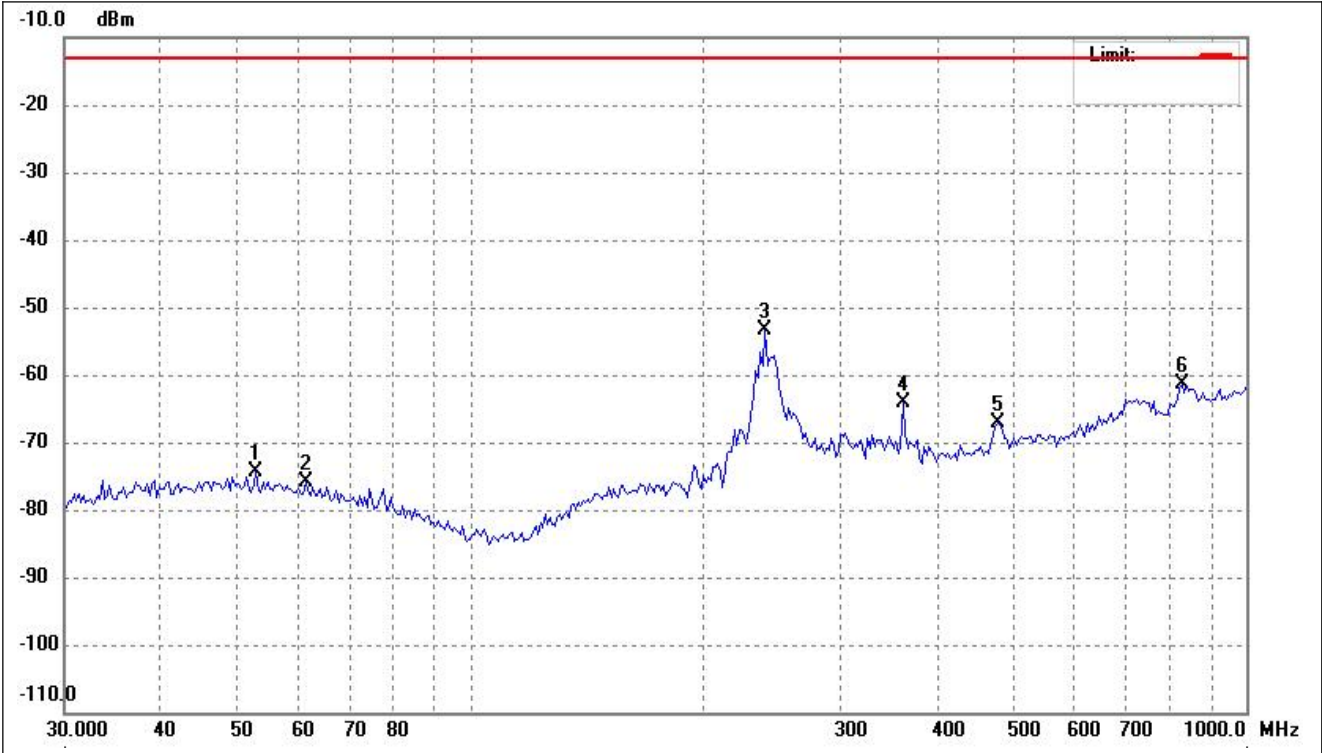
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 51.8998            | -78.36           | 3.27          | -75.09          | -25.00         | -50.09         | ERP    |
| 2   | 173.8146           | -76.99           | 0.98          | -76.01          | -25.00         | -51.01         | ERP    |
| 3   | 240.1442           | -58.88           | 6.86          | -52.02          | -25.00         | -27.02         | ERP    |
| 4   | 360.9775           | -69.10           | 4.54          | -64.56          | -25.00         | -39.56         | ERP    |
| 5   | 448.8361           | -72.36           | 5.93          | -66.43          | -25.00         | -41.43         | ERP    |
| 6   | 821.3871           | -76.35           | 12.97         | -63.38          | -25.00         | -38.38         | ERP    |

|           |                 |           |          |
|-----------|-----------------|-----------|----------|
| Test Mode | TDD_LTE Band 41 | Polarity: | Vertical |
|-----------|-----------------|-----------|----------|



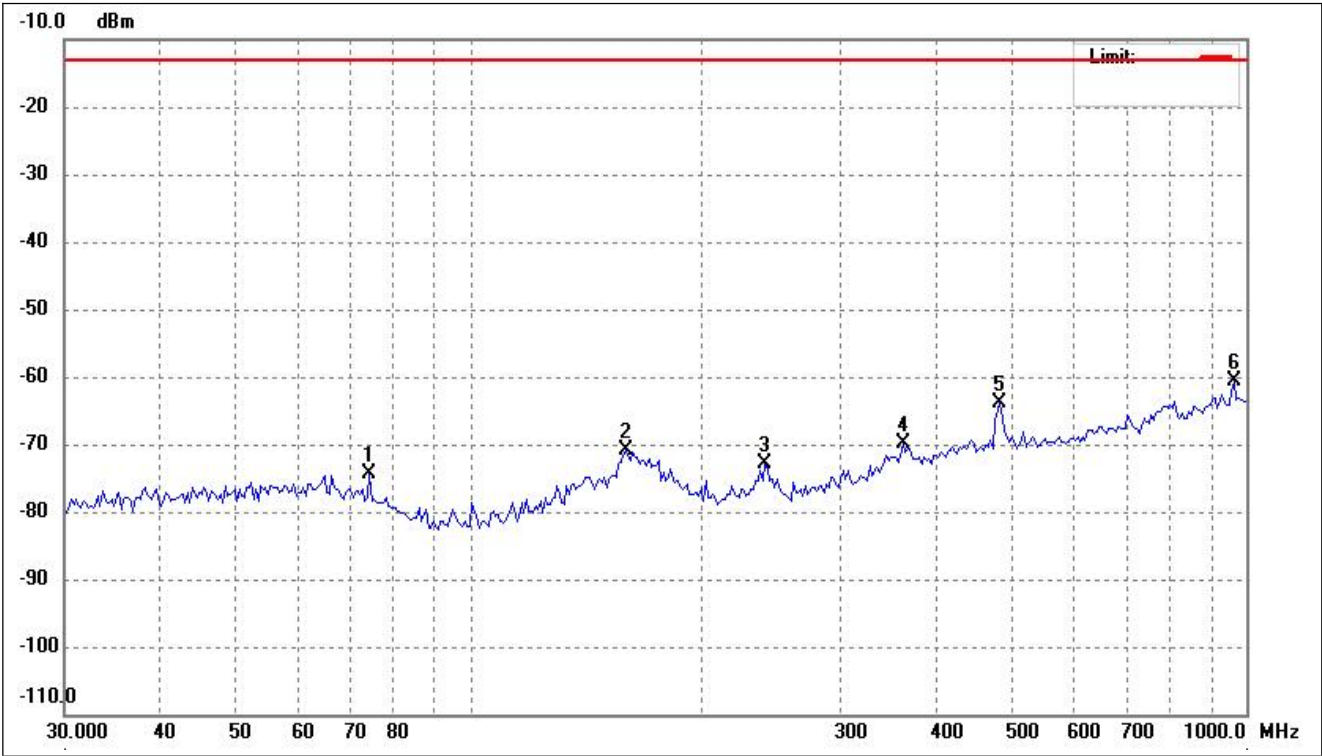
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 74.2696            | -75.47           | 1.94          | -73.53          | -25.00         | -48.53         | ERP    |
| 2   | 156.4259           | -77.23           | 6.52          | -70.71          | -25.00         | -45.71         | ERP    |
| 3   | 240.1442           | -69.95           | 0.93          | -69.02          | -25.00         | -44.02         | ERP    |
| 4   | 360.9775           | -71.09           | 4.57          | -66.52          | -25.00         | -41.52         | ERP    |
| 5   | 481.5112           | -68.80           | 6.84          | -61.96          | -25.00         | -36.96         | ERP    |
| 6   | 965.4742           | -72.07           | 12.75         | -59.32          | -25.00         | -34.32         | ERP    |

|           |                 |           |            |
|-----------|-----------------|-----------|------------|
| Test Mode | FDD_LTE Band 66 | Polarity: | Horizontal |
|-----------|-----------------|-----------|------------|



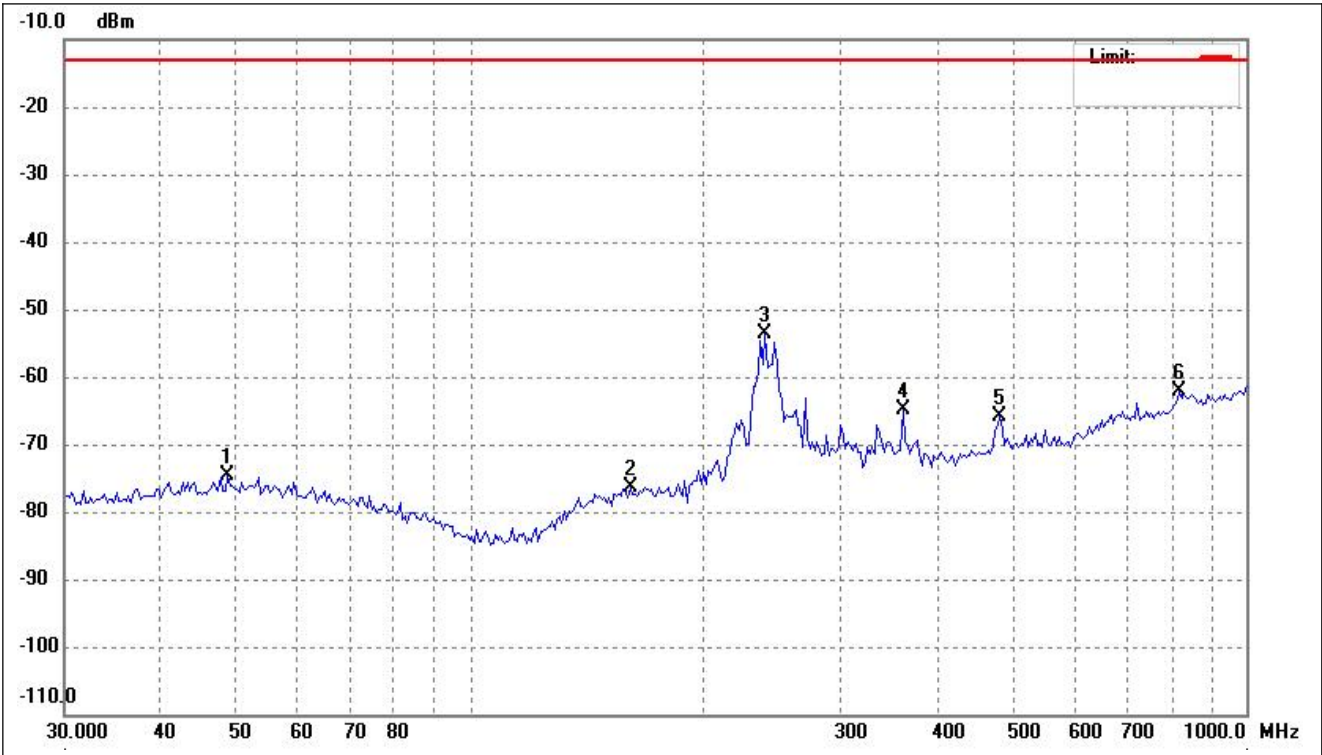
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 53.0056            | -77.51           | 3.13          | -74.38          | -13.00         | -61.38         | ERP    |
| 2   | 61.4343            | -77.90           | 2.11          | -75.79          | -13.00         | -62.79         | ERP    |
| 3   | 240.1442           | -60.24           | 6.86          | -53.38          | -13.00         | -40.38         | ERP    |
| 4   | 360.9775           | -68.76           | 4.54          | -64.22          | -13.00         | -51.22         | ERP    |
| 5   | 478.1394           | -73.74           | 6.71          | -67.03          | -13.00         | -54.03         | ERP    |
| 6   | 827.1795           | -74.60           | 13.24         | -61.36          | -13.00         | -48.36         | ERP    |

|           |                 |           |          |
|-----------|-----------------|-----------|----------|
| Test Mode | FDD_LTE Band 66 | Polarity: | Vertical |
|-----------|-----------------|-----------|----------|



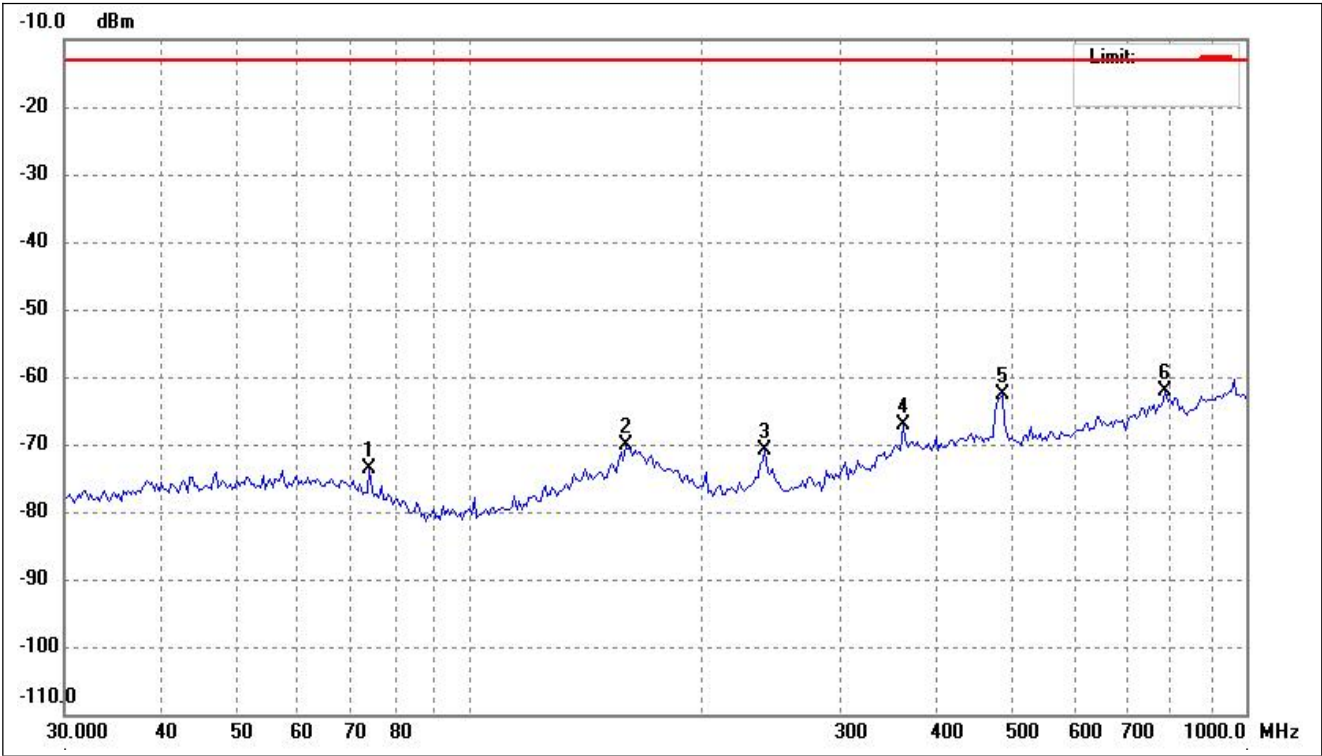
| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 74.2696            | -76.32           | 1.94          | -74.38          | -13.00         | -61.38         | ERP    |
| 2   | 158.6398           | -78.23           | 7.39          | -70.84          | -13.00         | -57.84         | ERP    |
| 3   | 240.1442           | -73.81           | 0.93          | -72.88          | -13.00         | -59.88         | ERP    |
| 4   | 360.9774           | -74.47           | 4.57          | -69.90          | -13.00         | -56.90         | ERP    |
| 5   | 481.5112           | -70.66           | 6.84          | -63.82          | -13.00         | -50.82         | ERP    |
| 6   | 965.4742           | -73.42           | 12.75         | -60.67          | -13.00         | -47.67         | ERP    |

|           |                 |           |            |
|-----------|-----------------|-----------|------------|
| Test Mode | FDD_LTE Band 71 | Polarity: | Horizontal |
|-----------|-----------------|-----------|------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 48.7191            | -77.95           | 3.38          | -74.57          | -13.00         | -61.57         | ERP    |
| 2   | 160.8852           | -77.39           | 0.98          | -76.41          | -13.00         | -63.41         | ERP    |
| 3   | 240.1442           | -60.44           | 6.86          | -53.58          | -13.00         | -40.58         | ERP    |
| 4   | 360.9775           | -69.34           | 4.54          | -64.80          | -13.00         | -51.80         | ERP    |
| 5   | 481.5112           | -72.67           | 6.80          | -65.87          | -13.00         | -52.87         | ERP    |
| 6   | 821.3871           | -75.07           | 12.97         | -62.10          | -13.00         | -49.10         | ERP    |

|           |                 |           |          |
|-----------|-----------------|-----------|----------|
| Test Mode | FDD_LTE Band 71 | Polarity: | Vertical |
|-----------|-----------------|-----------|----------|



| No. | Frequency<br>(MHz) | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Remark |
|-----|--------------------|------------------|---------------|-----------------|----------------|----------------|--------|
| 1   | 74.2696            | -75.56           | 1.94          | -73.62          | -13.00         | -60.62         | ERP    |
| 2   | 158.6397           | -77.46           | 7.39          | -70.07          | -13.00         | -57.07         | ERP    |
| 3   | 240.1442           | -71.68           | 0.93          | -70.75          | -13.00         | -57.75         | ERP    |
| 4   | 360.9774           | -71.61           | 4.57          | -67.04          | -13.00         | -54.04         | ERP    |
| 5   | 484.9068           | -69.58           | 6.90          | -62.68          | -13.00         | -49.68         | ERP    |
| 6   | 787.4748           | -74.58           | 12.34         | -62.24          | -13.00         | -49.24         | ERP    |

Note: Margin= (Reading+ Correct)- Limit



## ➤ Spurious Emissions Above 1GHz

## For FDD\_LTE Band 2 Mode

| Frequency<br>(MHz)         | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polar<br>H/V |
|----------------------------|------------------|---------------|-----------------|----------------|----------------|--------------|
| Low Channel (1852.5MHz)    |                  |               |                 |                |                |              |
| 3705.00                    | -47.28           | 10.54         | -36.74          | -13            | -23.74         | H            |
| 5557.50                    | -47.51           | 13.37         | -34.14          | -13            | -21.14         | H            |
| 3705.00                    | -46.07           | 10.54         | -35.53          | -13            | -22.53         | V            |
| 5557.50                    | -46.99           | 13.37         | -33.62          | -13            | -20.62         | V            |
| Middle Channel (1880.0MHz) |                  |               |                 |                |                |              |
| 3760.00                    | -47.56           | 10.64         | -36.92          | -13            | -23.92         | H            |
| 5640.00                    | -45.94           | 13.54         | -32.4           | -13            | -19.4          | H            |
| 3760.00                    | -44.46           | 10.64         | -33.82          | -13            | -20.82         | V            |
| 5640.00                    | -47.43           | 13.54         | -33.89          | -13            | -20.89         | V            |
| High Channel (1907.5MHz)   |                  |               |                 |                |                |              |
| 3815.00                    | -45.02           | 10.74         | -34.28          | -13            | -21.28         | H            |
| 5722.50                    | -44.19           | 13.71         | -30.48          | -13            | -17.48         | H            |
| 3815.00                    | -47.01           | 10.74         | -36.27          | -13            | -23.27         | V            |
| 5722.50                    | -46.29           | 13.71         | -32.58          | -13            | -19.58         | V            |

## For FDD\_LTE Band 4 Mode

| Frequency<br>(MHz)         | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polar<br>H/V |
|----------------------------|------------------|---------------|-----------------|----------------|----------------|--------------|
| Low Channel (1712.5MHz)    |                  |               |                 |                |                |              |
| 3425.00                    | -42.41           | 8.65          | -33.76          | -13            | -20.76         | H            |
| 5137.50                    | -42.02           | 12.03         | -29.99          | -13            | -16.99         | H            |
| 3425.00                    | -43.37           | 8.65          | -34.72          | -13            | -21.72         | V            |
| 5137.50                    | -44.86           | 12.03         | -32.83          | -13            | -19.83         | V            |
| Middle Channel (1732.5MHz) |                  |               |                 |                |                |              |
| 3465.00                    | -43.33           | 8.91          | -34.42          | -13            | -21.42         | H            |
| 5197.50                    | -42.06           | 12.29         | -29.77          | -13            | -16.77         | H            |
| 3465.00                    | -44.41           | 8.91          | -35.5           | -13            | -22.5          | V            |
| 5197.50                    | -43.1            | 12.29         | -30.81          | -13            | -17.81         | V            |
| High Channel (1752.5MHz)   |                  |               |                 |                |                |              |
| 3505.00                    | -45.48           | 9.11          | -36.37          | -13            | -23.37         | H            |
| 5257.50                    | -45.59           | 12.56         | -33.03          | -13            | -20.03         | H            |
| 3505.00                    | -45.57           | 9.11          | -36.46          | -13            | -23.46         | V            |
| 5257.50                    | -42.02           | 12.56         | -29.46          | -13            | -16.46         | V            |



## For FDD\_LTE Band 5 Mode

| Frequency                 | Reading | Correct | Result | Limit | Margin | Polar |
|---------------------------|---------|---------|--------|-------|--------|-------|
| (MHz)                     | (dBm)   | dB      | (dBm)  | (dBm) | (dB)   | H/V   |
| Low Channel (824.7MHz)    |         |         |        |       |        |       |
| 1649.40                   | -49.78  | 4.94    | -44.84 | -13   | -31.84 | H     |
| 2474.10                   | -52.28  | 8.46    | -43.82 | -13   | -30.82 | H     |
| 1649.40                   | -46.49  | 4.94    | -41.55 | -13   | -28.55 | V     |
| 2474.10                   | -54.45  | 8.46    | -45.99 | -13   | -32.99 | V     |
| Middle Channel (836.5MHz) |         |         |        |       |        |       |
| 1673.00                   | -48.92  | 5.11    | -43.81 | -13   | -30.81 | H     |
| 2509.50                   | -54.8   | 8.54    | -46.26 | -13   | -33.26 | H     |
| 1673.00                   | -48.84  | 5.11    | -43.73 | -13   | -30.73 | V     |
| 2509.50                   | -56.83  | 8.54    | -48.29 | -13   | -35.29 | V     |
| High Channel (848.3MHz)   |         |         |        |       |        |       |
| 1696.60                   | -49.37  | 4.71    | -44.66 | -13   | -31.66 | H     |
| 2544.90                   | -54.01  | 8.16    | -45.85 | -13   | -32.85 | H     |
| 1696.60                   | -48.19  | 4.71    | -43.48 | -13   | -30.48 | V     |
| 2544.90                   | -56.05  | 8.16    | -47.89 | -13   | -34.89 | V     |

## For FDD\_LTE Band 12 Mode

| Frequency                 | Reading | Correct | Result | Limit | Margin | Polar |
|---------------------------|---------|---------|--------|-------|--------|-------|
| (MHz)                     | (dBm)   | dB      | (dBm)  | (dBm) | (dB)   | H/V   |
| Low Channel (669.7MHz)    |         |         |        |       |        |       |
| 1339.40                   | -46.26  | 4.01    | -42.25 | -13   | -29.25 | H     |
| 2009.10                   | -52.22  | 7.32    | -44.9  | -13   | -31.9  | H     |
| 1339.40                   | -48.67  | 4.01    | -44.66 | -13   | -31.66 | V     |
| 2009.10                   | -57.49  | 7.32    | -50.17 | -13   | -37.17 | V     |
| Middle Channel (707.5MHz) |         |         |        |       |        |       |
| 1415.00                   | -46.69  | 4.11    | -42.58 | -13   | -29.58 | H     |
| 2122.50                   | -54.85  | 7.54    | -47.31 | -13   | -34.31 | H     |
| 1415.00                   | -48.51  | 4.11    | -44.4  | -13   | -31.4  | V     |
| 2122.50                   | -54.71  | 7.54    | -47.17 | -13   | -34.17 | V     |
| High Channel (715.3MHz)   |         |         |        |       |        |       |
| 1430.6                    | -47.81  | 4.35    | -43.46 | -13   | -30.46 | H     |
| 2145.9                    | -53.29  | 7.88    | -45.41 | -13   | -32.41 | H     |
| 1430.6                    | -46.19  | 4.35    | -41.84 | -13   | -28.84 | V     |
| 2145.9                    | -56.61  | 7.88    | -48.73 | -13   | -35.73 | V     |

## For FDD\_LTE Band 13 Mode

| Frequency                 | Reading | Correct | Result | Limit | Margin | Polar |
|---------------------------|---------|---------|--------|-------|--------|-------|
| (MHz)                     | (dBm)   | dB      | (dBm)  | (dBm) | (dB)   | H/V   |
| Low Channel (779.5MHz)    |         |         |        |       |        |       |
| 1559.00                   | -48.07  | 4.52    | -43.55 | -13   | -30.55 | H     |
| 2338.50                   | -52.58  | 7.96    | -44.62 | -13   | -31.62 | H     |
| 1559.00                   | -49.7   | 4.52    | -45.18 | -13   | -32.18 | V     |
| 2338.5                    | -57.56  | 7.96    | -49.6  | -13   | -36.6  | V     |
| Middle Channel (782.0MHz) |         |         |        |       |        |       |
| 1564.00                   | -47.5   | 4.68    | -42.82 | -13   | -29.82 | H     |
| 2346.00                   | -55.77  | 8.02    | -47.75 | -13   | -34.75 | H     |
| 1564.00                   | -48.55  | 4.68    | -43.87 | -13   | -30.87 | V     |
| 2346.00                   | -54.92  | 8.05    | -46.87 | -13   | -33.87 | V     |
| High Channel (784.5MHz)   |         |         |        |       |        |       |
| 1569.00                   | -46.31  | 4.85    | -41.46 | -13   | -28.46 | H     |
| 2353.5                    | -55.94  | 8.26    | -47.68 | -13   | -34.68 | H     |
| 1569.00                   | -46.14  | 4.85    | -41.29 | -13   | -28.29 | V     |
| 2353.5                    | -55.83  | 8.26    | -47.57 | -13   | -34.57 | V     |

## For FDD\_LTE Band 25 Mode

| Frequency                  | Reading | Correct | Result | Limit | Margin | Polar |
|----------------------------|---------|---------|--------|-------|--------|-------|
| (MHz)                      | (dBm)   | dB      | (dBm)  | (dBm) | (dB)   | H/V   |
| Low Channel (1850.7MHz)    |         |         |        |       |        |       |
| 3701.40                    | -44.71  | 10.54   | -34.17 | -13   | -21.17 | H     |
| 5552.10                    | -45.44  | 13.37   | -32.07 | -13   | -19.07 | H     |
| 3701.40                    | -44.13  | 10.54   | -33.59 | -13   | -20.59 | V     |
| 5552.10                    | -46.25  | 13.37   | -32.88 | -13   | -19.88 | V     |
| Middle Channel (1882.5MHz) |         |         |        |       |        |       |
| 3765.00                    | -44.21  | 10.64   | -33.57 | -13   | -20.57 | H     |
| 5647.50                    | -47.77  | 13.54   | -34.23 | -13   | -21.23 | H     |
| 3765.00                    | -47.61  | 10.64   | -36.97 | -13   | -23.97 | V     |
| 5647.50                    | -46.4   | 13.54   | -32.86 | -13   | -19.86 | V     |
| High Channel (1914.3MHz)   |         |         |        |       |        |       |
| 3828.60                    | -45.7   | 10.74   | -34.96 | -13   | -21.96 | H     |
| 5742.90                    | -45.19  | 13.71   | -31.48 | -13   | -18.48 | H     |
| 3828.60                    | -46.57  | 10.74   | -35.83 | -13   | -22.83 | V     |
| 5742.90                    | -46.62  | 13.71   | -32.91 | -13   | -19.91 | V     |

## For FDD\_LTE Band 26 Mode

| Frequency<br>(MHz)        | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polar<br>H/V |
|---------------------------|------------------|---------------|-----------------|----------------|----------------|--------------|
| Low Channel (824.7MHz)    |                  |               |                 |                |                |              |
| 1649.40                   | -46.65           | 4.94          | -41.71          | -13            | -28.71         | H            |
| 2474.10                   | -52.66           | 8.46          | -44.2           | -13            | -31.2          | H            |
| 1649.40                   | -46.88           | 4.94          | -41.94          | -13            | -28.94         | V            |
| 2474.10                   | -57.3            | 8.46          | -48.84          | -13            | -35.84         | V            |
| Middle Channel (836.5MHz) |                  |               |                 |                |                |              |
| 1673.00                   | -47.05           | 5.11          | -41.94          | -13            | -28.94         | H            |
| 2509.50                   | -54.87           | 8.54          | -46.33          | -13            | -33.33         | H            |
| 1673.00                   | -48.58           | 5.11          | -43.47          | -13            | -30.47         | V            |
| 2509.50                   | -55.5            | 8.54          | -46.96          | -13            | -33.96         | V            |
| High Channel (848.3MHz)   |                  |               |                 |                |                |              |
| 1696.60                   | -47.45           | 5.25          | -42.2           | -13            | -29.2          | H            |
| 2544.90                   | -52.78           | 8.57          | -44.21          | -13            | -31.21         | H            |
| 1696.60                   | -46.23           | 5.25          | -40.98          | -13            | -27.98         | V            |
| 2544.90                   | -54.51           | 8.57          | -45.94          | -13            | -32.94         | V            |

## For TDD\_LTE Band 41 Mode

| Frequency<br>(MHz)       | Reading<br>(dBm) | Correct<br>dB | Result<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polar<br>H/V |
|--------------------------|------------------|---------------|-----------------|----------------|----------------|--------------|
| Low Channel (2498.5MHz)  |                  |               |                 |                |                |              |
| 5115.0                   | -44.74           | 10.72         | -34.02          | -25            | -9.02          | H            |
| 7672.5                   | -44.61           | 14.83         | -29.78          | -25            | -4.78          | H            |
| 5115.0                   | -44.39           | 10.72         | -33.67          | -25            | -8.67          | V            |
| 7672.5                   | -44.85           | 14.83         | -30.02          | -25            | -5.02          | V            |
| Middle Channel (2593MHz) |                  |               |                 |                |                |              |
| 5210.0                   | -43.31           | 11.32         | -31.99          | -25            | -6.99          | H            |
| 7815.0                   | -45.75           | 16.41         | -29.34          | -25            | -4.34          | H            |
| 5210.0                   | -42.94           | 11.32         | -31.62          | -25            | -6.62          | V            |
| 7815.0                   | -48.54           | 16.41         | -32.13          | -25            | -7.13          | V            |
| High Channel (2687.5MHz) |                  |               |                 |                |                |              |
| 5305.0                   | -43.99           | 12.49         | -31.5           | -25            | -6.5           | H            |
| 7957.5                   | -47.64           | 17.98         | -29.66          | -25            | -4.66          | H            |
| 5305.0                   | -43.3            | 12.49         | -30.81          | -25            | -5.81          | V            |
| 7957.5                   | -47.96           | 17.98         | -29.98          | -25            | -4.98          | V            |

## For FDD\_LTE Band 66 Mode

| Frequency                | Reading | Correct | Result | Limit | Margin | Polar |
|--------------------------|---------|---------|--------|-------|--------|-------|
| (MHz)                    | (dBm)   | dB      | (dBm)  | (dBm) | (dB)   | H/V   |
| Low Channel (1710.7MHz)  |         |         |        |       |        |       |
| 3420.77                  | -46.15  | 9.22    | -36.93 | -13   | -23.93 | H     |
| 5131.47                  | -54.7   | 11.35   | -43.35 | -13   | -30.35 | H     |
| 3420.77                  | -49.06  | 9.22    | -39.84 | -13   | -26.84 | V     |
| 5131.47                  | -57.65  | 11.35   | -46.3  | -13   | -33.3  | V     |
| Middle Channel (1745MHz) |         |         |        |       |        |       |
| 3490.00                  | -49.26  | 9.53    | -39.73 | -13   | -26.73 | H     |
| 5235.00                  | -55.43  | 11.98   | -43.45 | -13   | -30.45 | H     |
| 3490.00                  | -48.36  | 9.53    | -38.83 | -13   | -25.83 | V     |
| 5235.00                  | -55.95  | 11.98   | -43.97 | -13   | -30.97 | V     |
| High Channel (1779.3MHz) |         |         |        |       |        |       |
| 3558.60                  | -48.82  | 9.82    | -39.00 | -13   | -26.00 | H     |
| 5337.90                  | -52.52  | 12.35   | -40.17 | -13   | -27.17 | H     |
| 3558.60                  | -47.43  | 9.82    | -37.61 | -13   | -24.61 | V     |
| 5337.90                  | -56.24  | 12.35   | -43.89 | -13   | -30.89 | V     |

## For FDD\_LTE Band 71 Mode

| Frequency                 | Reading | Correct | Result | Limit | Margin | Polar |
|---------------------------|---------|---------|--------|-------|--------|-------|
| (MHz)                     | (dBm)   | dB      | (dBm)  | (dBm) | (dB)   | H/V   |
| Low Channel (673MHz)      |         |         |        |       |        |       |
| 1346                      | -47.18  | 4.15    | -43.03 | -13   | -30.03 | H     |
| 2019                      | -53.96  | 7.62    | -46.34 | -13   | -33.34 | H     |
| 1346                      | -48.17  | 4.15    | -44.02 | -13   | -31.02 | V     |
| 2019                      | -56.41  | 7.62    | -48.79 | -13   | -35.79 | V     |
| Middle Channel (680.5MHz) |         |         |        |       |        |       |
| 1361                      | -48.11  | 4.48    | -43.63 | -13   | -30.63 | H     |
| 2041.5                    | -55.22  | 7.93    | -47.29 | -13   | -34.29 | H     |
| 1361                      | -46.64  | 4.48    | -42.16 | -13   | -29.16 | V     |
| 2041.5                    | -57.18  | 7.93    | -49.25 | -13   | -36.25 | V     |
| High Channel (688MHz)     |         |         |        |       |        |       |
| 1376                      | -49.17  | 4.71    | -44.46 | -13   | -31.46 | H     |
| 2064                      | -54.85  | 8.16    | -46.69 | -13   | -33.69 | H     |
| 1376                      | -49.44  | 4.71    | -44.73 | -13   | -31.73 | V     |
| 2064                      | -57.04  | 8.16    | -48.88 | -13   | -35.88 | V     |

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

## 8. Frequency Stability

---

### 8.1 Standard Applicable

According to §22.355, §24.235, §27.54 the limit is 2.5ppm.

### 8.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode.

### 8.3 Summary of Test Results/Plots

Please refer to Appendix F: Frequency Stability

Test result: Pass

## APPENDIX PHOTOGRAPHS

---

Please refer to “ANNEX”

\*\*\*\*\* END OF REPORT \*\*\*\*\*