

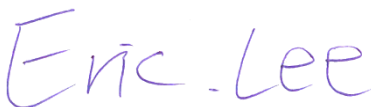
# FCC Radio Test Report

**FCC ID: 2AVVT-CU413UCMPS1**

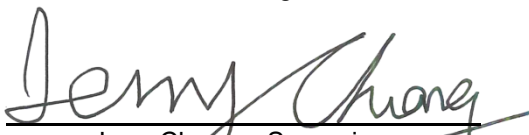
**Report No.** : BTL-FCCP-2-2103T126B  
**Equipment** : iTraMS CCU  
**Model Name** : CU-41-3U-CM-PS1  
**Brand Name** : Bosch  
**Applicant** : Bosch Global Software Technologies Private Limited  
**Address** : MS/PAC, Ban 601, Post Box No 3000 Hosur Road, Adugodi, Bengaluru, Karnataka-560030, India  
  
**Radio Function** : WCDMA Band V+ LTE Band 5  
  
**FCC Rule Part(s)** : 47 CRF FCC Part 22, Subpart H  
47 CFR FCC Part 2  
**Measurement Procedure(s)** : ANSI C63.26-2015  
ANSI/TIA/EIA-603-E-2016  
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01  
  
**Date of Receipt** : 2022/7/27  
**Date of Test** : 2022/7/27 ~ 2022/11/7  
**Issued Date** : 2022/11/22

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

**Prepared by**

  
Eric Lee, Engineer

**Approved by**

  
Jerry Chuang, Supervisor



**BTL Inc.**

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: [www.newbtl.com](http://www.newbtl.com) Service mail: [btl\\_qa@newbtl.com](mailto:btl_qa@newbtl.com)

**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL's** laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

## CONTENTS

|                                                              |    |
|--------------------------------------------------------------|----|
| REVISION HISTORY                                             | 5  |
| 1 SUMMARY OF TEST RESULTS                                    | 6  |
| 1.1 TEST FACILITY                                            | 7  |
| 1.2 MEASUREMENT UNCERTAINTY                                  | 7  |
| 1.3 TEST ENVIRONMENT CONDITIONS                              | 7  |
| 2 GENERAL INFORMATION                                        | 8  |
| 2.1 DESCRIPTION OF EUT                                       | 8  |
| 2.2 TEST MODES                                               | 11 |
| 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 13 |
| 2.4 SUPPORT UNITS                                            | 14 |
| 3 ERP TEST                                                   | 15 |
| 3.1 LIMIT                                                    | 15 |
| 3.2 TEST PROCEDURE                                           | 15 |
| 3.3 DEVIATION FROM TEST STANDARD                             | 15 |
| 3.4 TEST SETUP                                               | 16 |
| 3.5 EUT OPERATING CONDITIONS                                 | 16 |
| 3.6 TEST RESULT                                              | 16 |
| 4 OCCUPIED BANDWIDTH MEASUREMENT                             | 17 |
| 4.1 TEST PROCEDURE                                           | 17 |
| 4.2 DEVIATION FROM TEST STANDARD                             | 17 |
| 4.3 TEST SETUP                                               | 17 |
| 4.4 TEST RESULT                                              | 17 |
| 5 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT                   | 18 |
| 5.1 LIMIT                                                    | 18 |
| 5.2 TEST PROCEDURE                                           | 18 |
| 5.3 DEVIATION FROM TEST STANDARD                             | 18 |
| 5.4 TEST SETUP                                               | 18 |
| 5.5 TEST RESULT                                              | 18 |
| 6 RADIATED SPURIOUS EMISSIONS TEST                           | 19 |
| 6.1 LIMIT                                                    | 19 |
| 6.2 TEST PROCEDURE                                           | 19 |
| 6.3 DEVIATION FROM TEST STANDARD                             | 19 |
| 6.4 TEST SETUP                                               | 20 |
| 6.5 EUT OPERATING CONDITIONS                                 | 20 |
| 6.6 TEST RESULT                                              | 20 |
| 7 BAND EDGE MEASUREMENT                                      | 21 |
| 7.1 LIMIT                                                    | 21 |
| 7.2 TEST PROCEDURE                                           | 21 |
| 7.3 DEVIATION FROM TEST STANDARD                             | 21 |
| 7.4 TEST SETUP                                               | 21 |
| 7.5 TEST RESULT                                              | 21 |
| 8 PEAK TO AVERAGE RATIO MEASUREMENT                          | 22 |
| 8.1 LIMIT                                                    | 22 |
| 8.2 TEST PROCEDURE                                           | 22 |
| 8.3 DEVIATION FROM TEST STANDARD                             | 22 |
| 8.4 TEST SETUP                                               | 22 |
| 8.5 TEST RESULT                                              | 22 |
| 9 FREQUENCY STABILITY MEASUREMENT                            | 23 |

|            |                              |     |
|------------|------------------------------|-----|
| 9.1        | LIMIT                        | 23  |
| 9.2        | TEST PROCEDURE               | 23  |
| 9.3        | DEVIATION FROM TEST STANDARD | 23  |
| 9.4        | TEST SETUP                   | 23  |
| 9.5        | TEST RESULT                  | 23  |
| 10         | LIST OF MEASURING EQUIPMENTS | 24  |
| 11         | EUT TEST PHOTO               | 26  |
| 12         | EUT PHOTOS                   | 26  |
| APPENDIX A | ERP                          | 27  |
| APPENDIX B | OCCUPIED BANDWIDTH           | 74  |
| APPENDIX C | CONDUCTED SPURIOUS EMISSION  | 85  |
| APPENDIX D | RADIATED SPURIOUS EMISSIONS  | 91  |
| APPENDIX E | BAND EDGE                    | 116 |
| APPENDIX F | PEAK TO AVERAGE RATIO        | 122 |
| APPENDIX G | FREQUENCY STABILITY          | 128 |

### REVISION HISTORY

| Report No.           | Version | Description                                                                            | Issued Date | Note    |
|----------------------|---------|----------------------------------------------------------------------------------------|-------------|---------|
| BTL-FCCP-2-2103T126  | R00     | Original Report.                                                                       | 2021/9/17   | Invalid |
| BTL-FCCP-2-2103T126  | R01     | Revised Typo.                                                                          | 2021/9/27   | Invalid |
| BTL-FCCP-2-2103T126  | R02     | Revised report to address TCB's comments.                                              | 2021/10/13  | Valid   |
| BTL-FCCP-2-2103T126B | R00     | 1. Added the fourth antenna. (MA173. A. LBI.001)<br>2. Modified applicant and address. | 2022/11/22  | Valid   |

## 1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

| Standard(s) Section    | Description                       | Test Result | Judgement | Remark      |
|------------------------|-----------------------------------|-------------|-----------|-------------|
| 15.207                 | AC Power Line Conducted Emissions | -----       | N/A       | Note(3)     |
| 2.1046<br>22.913(a)(5) | Effective Radiated Power (ERP)    | APPENDIX A  | Pass      | -----       |
| 2.1049                 | Occupied Bandwidth                | APPENDIX B  | Pass      | -----       |
| 2.1051<br>22.917(a)    | Conducted Spurious Emissions      | APPENDIX C  | Pass      | -----       |
| 2.1053<br>22.917(a)    | Radiated Spurious Emissions       | APPENDIX D  | Pass      | -----       |
| 22.917(a)              | Band Edge Measurements            | APPENDIX E  | Pass      | -----       |
| -                      | Peak To Average Ratio             | APPENDIX F  | Pass      | Record Only |
| 2.1055<br>22.355       | Frequency Stability               | APPENDIX G  | Pass      | -----       |

### NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This is a DC input device.

### 1.1 TEST FACILITY

Test Firm Location: No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan.

TAF Accreditation Number is 0659; FCC Designation Number is TW0659.

The satellite facilities under the test firm used to collect the test data in this report are:

No. 66, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

☒ CB15 ☐ CB16

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

☐ CB12 ☒ SR05

Spot check test:

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

☐ C06 ☒ CB21 ☐ CB22

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately **95 %**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{CISPR}}$  requirement.

#### A. Radiated Spurious Emissions test :

| Test Site    | Measurement Frequency Range | $U_{\text{dB}}$ |
|--------------|-----------------------------|-----------------|
| CB15<br>CB21 | 0.03 GHz ~ 0.2 GHz          | 4.17            |
|              | 0.2 GHz ~ 1 GHz             | 4.72            |
|              | 1 GHz ~ 6 GHz               | 5.21            |
|              | 6 GHz ~ 18 GHz              | 5.51            |
|              | 18 GHz ~ 26 GHz             | 3.69            |
|              | 26 GHz ~ 40 GHz             | 4.23            |

#### NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 1.3 TEST ENVIRONMENT CONDITIONS

| Test Item                                      | Environment Condition | Test Voltage | Tested by   |
|------------------------------------------------|-----------------------|--------------|-------------|
| ERP (Conducted)                                | 24.8 °C, 49 %         | DC 32V       | William Wei |
| Occupied Bandwidth                             | 24.8 °C, 49 %         | DC 32V       | William Wei |
| Conducted Spurious Emissions                   | 24.8 °C, 49 %         | DC 32V       | William Wei |
| Radiated Spurious Emissions and ERP (Radiated) | Refer to data         | DC 32V       | Jay Kao     |
| Band Edge                                      | 24.8 °C, 49 %         | DC 32V       | William Wei |
| Peak to Average Ratio                          | 24.8 °C, 49 %         | DC 32V       | William Wei |
| Frequency Stability                            | Normal and Extreme    |              | William Wei |

#### Spot check test:

| Test Item                                      | Environment Condition | Test Voltage | Tested by |
|------------------------------------------------|-----------------------|--------------|-----------|
| ERP (Conducted)                                | 23.7 °C, 51 %         | DC 32V       | Paul Shen |
| Radiated Spurious Emissions and ERP (Radiated) | Refer to data         | DC 32V       | Mark Wang |

## 2 GENERAL INFORMATION

### 2.1 DESCRIPTION OF EUT

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                    |                    |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------|--------------------|
| Equipment                           | iTraMS CCU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                    |                    |
| Model Name                          | CU-41-3U-CM-PS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                    |                    |
| Brand Name                          | Bosch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                    |                    |
| Model Difference                    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                    |                    |
| Power Source                        | DC Voltage supplied from DC Source.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                    |                    |
| Power Rating                        | DC 9-32V (12V or 24V )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                    |                    |
| Products Covered                    | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                    |                    |
| Hardware Version/Test Model         | AD00 A10 062                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                    |                    |
| Software Version                    | 1277401063                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                    |                    |
| IEMI No.                            | <div><div>2021/04/20 12:02</div><div>Connected</div><div>Phone-2<br/>LTE</div><div>Phone-1<br/>LTE</div></div> <div><div>&lt;Fundamental Measurement&gt; Output Main</div><div>Parameter</div><div>Fundamental</div><div>UE Report</div></div> <div>UE Power : 23.5 dBm</div> <div>UE Report</div> <div><div>IMSI(DEC)</div><div>405120123458284</div></div> <div><div>IMEI</div><div>357649072587010</div></div> <div><div>UE Category</div><div>1</div></div> <div><div>PDN Type</div><div>-----</div></div> <div><div>PCC</div><div>-----</div></div> <div><div>RSRP</div><div>55</div><div>( -86 to -85 dBm/15kHz )</div></div> <div><div>RSRQ</div><div>18</div><div>( -11.0 to -10.5 dB )</div></div> <div><div>SCC-1</div><div>-----</div><div>( )</div></div> <div><div>RSRP</div><div>-----</div><div>( )</div></div> <div><div>RSRQ</div><div>-----</div><div>( )</div></div> <div><div>SCC-2</div><div>-----</div><div>( )</div></div> <div><div>RSRP</div><div>-----</div><div>( )</div></div> <div><div>RSRQ</div><div>-----</div><div>( )</div></div> <div><div>Neighbour Cell</div><div>-----</div></div> <div><div>LTE</div><div>-----</div></div> <div><div>Cell ID</div><div>390</div></div> <div><div>RSRP</div><div>47</div><div>( -94 to -93 dBm/15kHz )</div></div> <div><div>RSRQ</div><div>2</div><div>( -19.0 to -18.5 dB )</div></div> <div><div>W-CDMA/TD-SCDMA</div><div>RAT</div><div>Cell ID</div><div>RSCP</div><div>-----</div><div>-----</div><div>( )</div></div> <div><div>GSM</div><div>Band</div><div>ARFCN</div><div>NCC</div><div>BCC</div><div>RLLEV</div></div> <div>123</div> |      |                    |                    |
| Test Model                          | CU-41-3U-CM-PS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                    |                    |
| Sample Status                       | Engineering Sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |                    |
| Operation Frequency                 | Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Band | UL Frequency (MHz) | DL Frequency (MHz) |
|                                     | WCDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | V    | 824 ~ 849          | 869 ~ 894          |
|                                     | LTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5    | 824 ~ 849          | 869 ~ 894          |
| Maximum ERP                         | WCDMA Band V: 0.160 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                    |                    |
|                                     | LTE Band 5 (1.4 MHz, QPSK): 0.200 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                    |                    |
|                                     | LTE Band 5 (1.4 MHz, 16QAM): 0.165 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                    |                    |
|                                     | LTE Band 5 (3 MHz, QPSK): 0.202 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                    |                    |
|                                     | LTE Band 5 (3 MHz, 16QAM): 0.167 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |                    |
|                                     | LTE Band 5 (5 MHz, QPSK): 0.204 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                    |                    |
|                                     | LTE Band 5 (5 MHz, 16QAM): 0.169 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |                    |
|                                     | LTE Band 5 (10 MHz, QPSK): 0.207 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |                    |
| LTE Band 5 (10 MHz, 16QAM): 0.171 W |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                    |                    |
| Maximum ERP<br>-Spot check test     | WCDMA Band V: 0.117 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                    |                    |
|                                     | LTE Band 5 (1.4 MHz, QPSK): 0.116 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                    |                    |
|                                     | LTE Band 5 (1.4 MHz, 16QAM): 0.094 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                    |                    |
|                                     | LTE Band 5 (3 MHz, QPSK): 0.117 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                    |                    |
|                                     | LTE Band 5 (3 MHz, 16QAM): 0.095 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |                    |
|                                     | LTE Band 5 (5 MHz, QPSK): 0.119 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                    |                    |
|                                     | LTE Band 5 (5 MHz, 16QAM): 0.096 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |                    |
|                                     | LTE Band 5 (10 MHz, QPSK): 0.120 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                    |                    |
| LTE Band 5 (10 MHz, 16QAM): 0.097 W |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                    |                    |
| EUT Modification(s)                 | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                    |                    |

**NOTE:**

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

**(2) Channel List:**

| WCDMA Band V      |        |                           |        |                             |
|-------------------|--------|---------------------------|--------|-----------------------------|
| Test Frequency ID | UARFCN | Frequency of Uplink (MHz) | UARFCN | Frequency of Downlink (MHz) |
| Low Range         | 4132   | 826.4                     | 4357   | 871.4                       |
| Mid Range         | 4183   | 836.6                     | 4408   | 881.5                       |
| High Range        | 4233   | 846.6                     | 4458   | 891.6                       |

| LTE Band 5        |                 |                 |                           |                 |                             |
|-------------------|-----------------|-----------------|---------------------------|-----------------|-----------------------------|
| Test Frequency ID | Bandwidth (MHz) | N <sub>UL</sub> | Frequency of Uplink (MHz) | N <sub>DL</sub> | Frequency of Downlink (MHz) |
| Low Range         | 1.4             | 20407           | 824.7                     | 2407            | 869.7                       |
|                   | 3               | 20415           | 825.5                     | 2415            | 870.5                       |
|                   | 5               | 20425           | 826.5                     | 2425            | 871.5                       |
|                   | 10              | 20450           | 829                       | 2450            | 874                         |
| Mid Range         | 1.4/3/5/10      | 20525           | 836.5                     | 2525            | 881.5                       |
| High Range        | 1.4             | 20643           | 848.3                     | 2643            | 893.3                       |
|                   | 3               | 20635           | 847.5                     | 2635            | 892.5                       |
|                   | 5               | 20625           | 846.5                     | 2625            | 891.5                       |
|                   | 10              | 20600           | 844                       | 2600            | 889                         |

**(3) Table for Filed Antenna:**
**Group I:**

| Antenna          | Manufacture                                                                         | Part No.        | Type | Connector    | Gain (dBi) | Note         |
|------------------|-------------------------------------------------------------------------------------|-----------------|------|--------------|------------|--------------|
| External antenna |  | MA250.A.LBI.001 | N/A  | SMA(M)ST     | 1.29       | WCDMA Band V |
|                  |                                                                                     | TG.08.0723      | N/A  | Fakra Code D | 1.29       | LTE Band 5   |
|                  |                                                                                     |                 |      |              | 1.82       | RX only      |

**Group II:**

| Antenna          | Manufacture                                                                         | Part No. | Type | Connector                 | Gain (dBi) | Note         |
|------------------|-------------------------------------------------------------------------------------|----------|------|---------------------------|------------|--------------|
| Built-in antenna |  | N/A      | N/A  | Integrated (Through Hole) | -0.6       | WCDMA Band V |
|                  |                                                                                     |          |      |                           | -0.6       | LTE Band 5   |

**Group III:**

| Antenna          | Manufacture                                                                         | Part No.      | Type | Connector | Gain (dBi) | Note         |
|------------------|-------------------------------------------------------------------------------------|---------------|------|-----------|------------|--------------|
| External antenna |  | MA240.LBI.001 | N/A  | SMA(M)    | 0.98       | WCDMA Band V |
|                  |                                                                                     |               |      |           | 0.98       | LTE Band 5   |

**Group IV:**

| Antenna          | Manufacture                                                                         | Part No.          | Type | Connector | Gain (dBi) | Note         |
|------------------|-------------------------------------------------------------------------------------|-------------------|------|-----------|------------|--------------|
| External antenna |  | MA173. A. LBI.001 | N/A  | SMA(M)ST  | 0.18       | WCDMA Band V |
|                  |                                                                                     |                   |      |           | 0.18       | LTE Band 5   |

Note: The EUT includes three groups of external antennas, for Radiated test items only the worst case MA240.LBI.001 antenna is recorded.

- (4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- (5) In this report, the test results of below items refer to BTL-FCCP-2-2103T126 report due to the device is identical to the original device of the referencing report, except modified applicant and address and added the fourth antenna (MA173. A. LBI.001) with spot checks.
- a. ERP (Conducted)
  - b. Occupied Bandwidth
  - c. Conducted Spurious Emissions
  - d. Radiated Spurious Emissions and ERP (Radiated)
  - e. Band Edge
  - f. Peak to Average Ratio
  - g. Frequency Stability

Spot checks are applied to below items:

- a. ERP (Conducted)
- b. Radiated Spurious Emissions and ERP (Radiated)

## 2.2 TEST MODES

| WCDMA BAND V MODE            |                   |                  |                     |
|------------------------------|-------------------|------------------|---------------------|
| Test Item                    | Available Channel | Tested Channel   | Mode                |
| ERP                          | 4132 to 4233      | 4132, 4183, 4233 | WCDMA, HSDPA, HSUPA |
| Occupied Bandwidth           | 4132 to 4233      | 4132, 4183, 4233 | WCDMA               |
| Conducted Spurious Emissions | 4132 to 4233      | 4183             | WCDMA               |
| Radiated Spurious Emissions  | 4132 to 4233      | 4183             | WCDMA               |
| Band Edge                    | 4132 to 4233      | 4132, 4233       | WCDMA               |
| Peak to Average Ratio        | 4132 to 4233      | 4132, 4183, 4233 | WCDMA               |
| Frequency Stability          | 4132 to 4233      | 4183             | WCDMA               |

| LTE BAND 5 MODE              |                   |                     |                   |                    |               |
|------------------------------|-------------------|---------------------|-------------------|--------------------|---------------|
| Test Item                    | Available Channel | Tested Channel      | Channel Bandwidth | Modulation         | Mode          |
| ERP                          | 20407 to 20643    | 20407, 20525, 20643 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1RB/3RB/6RB   |
|                              | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK, 16QAM, 64QAM | 1RB/8RB/15RB  |
|                              | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK, 16QAM, 64QAM | 1RB/12RB/25RB |
|                              | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK, 16QAM, 64QAM | 1RB/25RB/50RB |
| Occupied Bandwidth           | 20407 to 20643    | 20407, 20525, 20643 | 1.4MHz            | QPSK, 16QAM, 64QAM | 6RB           |
|                              | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK, 16QAM, 64QAM | 15RB          |
|                              | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK, 16QAM, 64QAM | 25RB          |
|                              | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK, 16QAM, 64QAM | 50RB          |
| Conducted Spurious Emissions | 20407 to 20643    | 20525               | 1.4MHz            | QPSK               | 1RB           |
|                              | 20425 to 20625    | 20525               | 5MHz              | QPSK               | 1RB           |
|                              | 20450 to 20600    | 20525               | 10MHz             | QPSK               | 1RB           |
| Radiated Spurious Emissions  | 20407 to 20643    | 20525               | 1.4MHz            | QPSK               | 1RB           |
|                              | 20425 to 20625    | 20525               | 5MHz              | QPSK               | 1RB           |
|                              | 20450 to 20600    | 20525               | 10MHz             | QPSK               | 1RB           |
| Band Edge                    | 20407 to 20643    | 20407, 20643        | 1.4MHz            | QPSK               | 1RB/6RB       |
|                              | 20415 to 20635    | 20415, 20635        | 3MHz              | QPSK               | 1RB/15RB      |
|                              | 20425 to 20625    | 20425, 20625        | 5MHz              | QPSK               | 1RB/25RB      |
|                              | 20450 to 20600    | 20450, 20600        | 10MHz             | QPSK               | 1RB/50RB      |
| Peak To Average Ratio        | 20407 to 20643    | 20407, 20525, 20643 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1RB           |
|                              | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK, 16QAM, 64QAM | 1RB           |
|                              | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK, 16QAM, 64QAM | 1RB           |
|                              | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK, 16QAM, 64QAM | 1RB           |

|                     |                |       |        |      |     |
|---------------------|----------------|-------|--------|------|-----|
| Frequency Stability | 20407 to 20643 | 20525 | 1.4MHz | QPSK | 1RB |
|                     | 20415 to 20635 | 20525 | 3MHz   | QPSK | 1RB |
|                     | 20425 to 20625 | 20525 | 5MHz   | QPSK | 1RB |
|                     | 20450 to 20600 | 20525 | 10MHz  | QPSK | 1RB |

**NOTE:**

(1) All X, Y and Z axes are evaluated, but only the worst case is recorded. See below table for detail.

| Test Item                              | External antenna |        | Built-in antenna |        |
|----------------------------------------|------------------|--------|------------------|--------|
|                                        | WCDMA            | LTE    | WCDMA            | LTE    |
| Radiated Spurious Emissions (below 1G) | X axis           | Z axis | Z axis           | Y axis |
| Radiated Spurious Emissions (above 1G) | X axis           | Z axis | Z axis           | Z axis |

(2) For ERP radiated part, only the worst cases are recorded.

**Spot check test:**

| WCDMA BAND V MODE           |                   |                  |                     |
|-----------------------------|-------------------|------------------|---------------------|
| Test Item                   | Available Channel | Tested Channel   | Mode                |
| ERP                         | 4132 to 4233      | 4132, 4183, 4233 | WCDMA, HSDPA, HSUPA |
| Radiated Spurious Emissions | 4132 to 4233      | 4183             | WCDMA               |

| LTE BAND 5 MODE             |                   |                     |                   |                    |               |
|-----------------------------|-------------------|---------------------|-------------------|--------------------|---------------|
| Test Item                   | Available Channel | Tested Channel      | Channel Bandwidth | Modulation         | Mode          |
| ERP                         | 20407 to 20643    | 20407, 20525, 20643 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1RB/3RB/6RB   |
|                             | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK, 16QAM, 64QAM | 1RB/8RB/15RB  |
|                             | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK, 16QAM, 64QAM | 1RB/12RB/25RB |
|                             | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK, 16QAM, 64QAM | 1RB/25RB/50RB |
| Radiated Spurious Emissions | 20407 to 20643    | 20525               | 1.4MHz            | QPSK               | 1RB           |
|                             | 20425 to 20625    | 20525               | 5MHz              | QPSK               | 1RB           |
|                             | 20450 to 20600    | 20525               | 10MHz             | QPSK               | 1RB           |

**NOTE:**

(1) All X, Y and Z axes are evaluated, but only the worst case is recorded. See below table for detail.

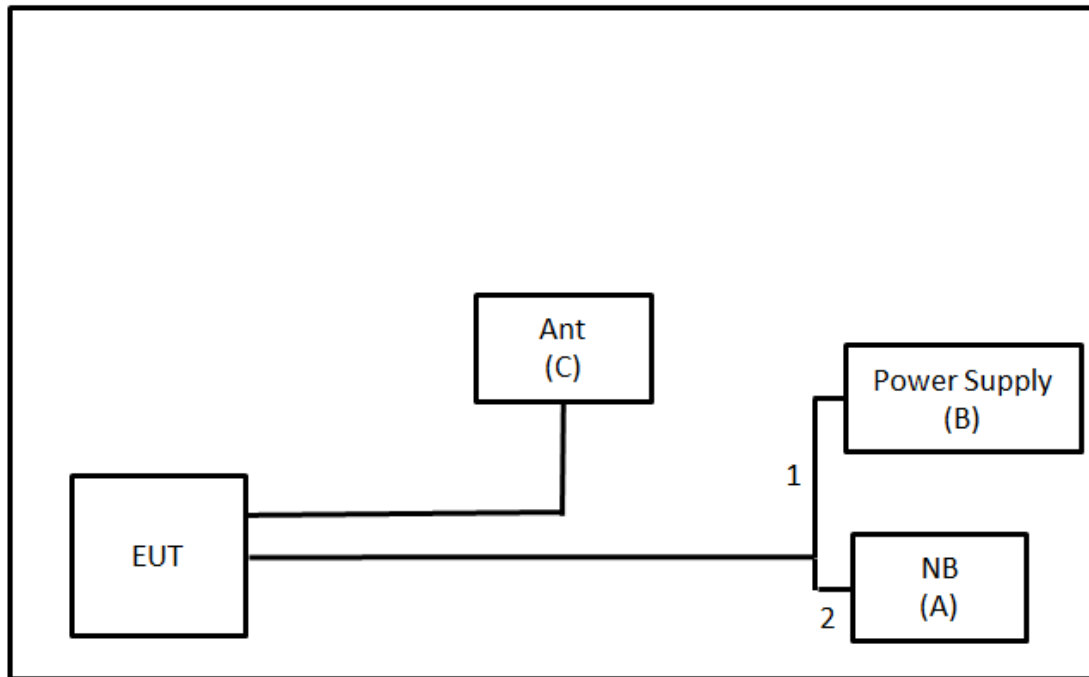
| Test Item                              | WCDMA  | LTE    |
|----------------------------------------|--------|--------|
| Radiated Spurious Emissions (below 1G) | X axis | Y axis |
| Radiated Spurious Emissions (above 1G) | X axis | Y axis |

(2) For ERP radiated part, only the worst cases are recorded.

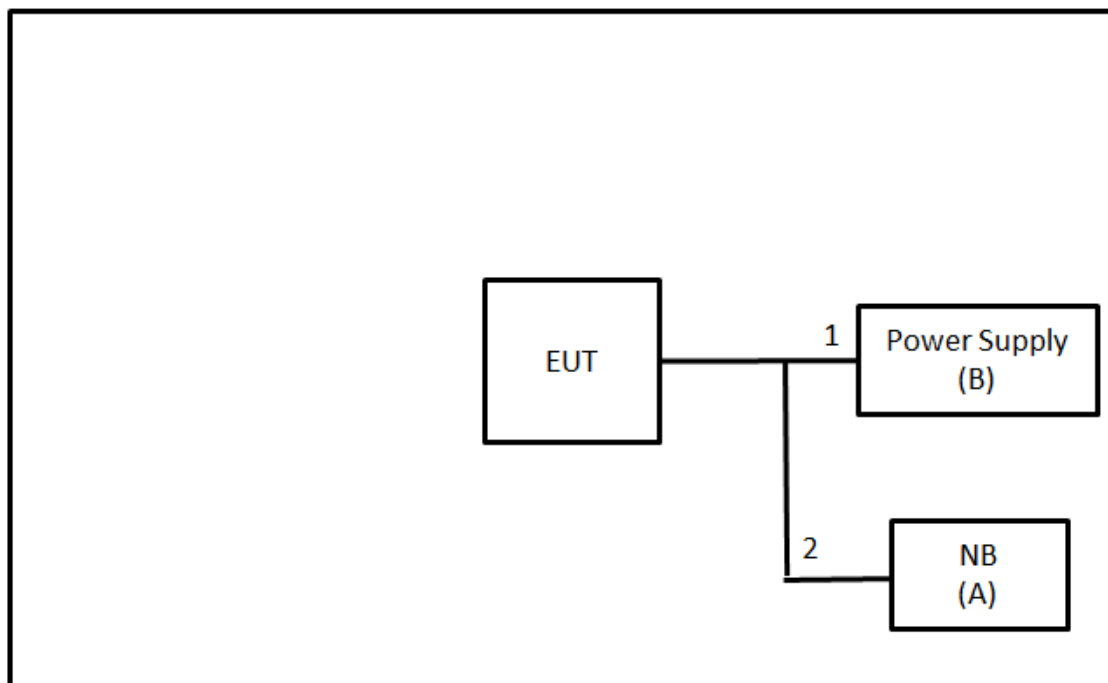
## 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

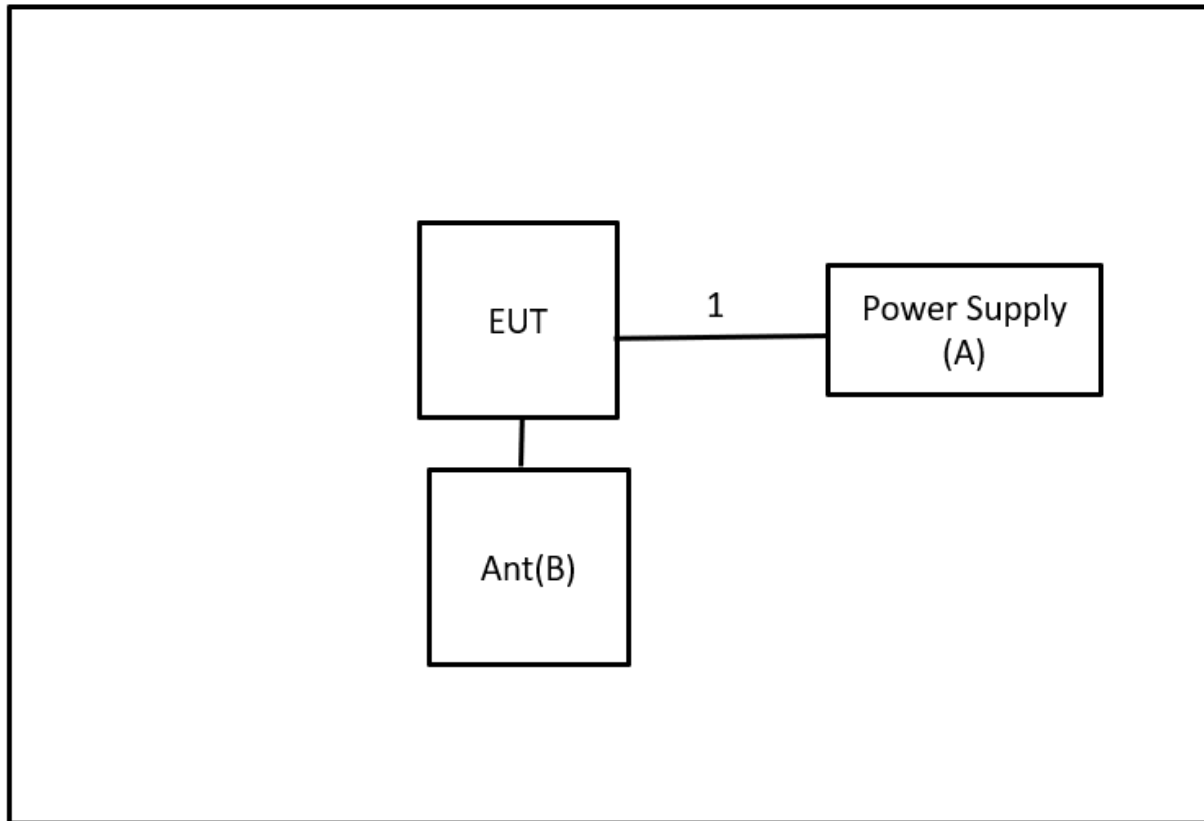
Radiated Emissions\_External antenna



Radiated Emissions\_Built-in antenna



Spot check test:



## 2.4 SUPPORT UNITS

| Item | Equipment        | Brand   | Model No.       | Series No. | Remarks                    |
|------|------------------|---------|-----------------|------------|----------------------------|
| A    | NB               | HP      | TPN-I119        | N/A        | Furnished by test lab.     |
| B    | Power Supply     | Twintex | TDS-60-15       | N/A        | Furnished by test lab.     |
| C    | external antenna | Taoglas | MA250.A.LBI.001 | N/A        | Supplied by test requester |
| D    | Stubby antenna   | Taoglas | TG.08.0723      | N/A        | Supplied by test requester |

| Item | Shielded | Ferrite Core | Length | Cable Type    | Remarks                    |
|------|----------|--------------|--------|---------------|----------------------------|
| 1    | N/A      | N/A          | 2m     | Power Cord    | Supplied by test requester |
| 2    | N/A      | N/A          | 2.1m   | RS 232 to USB | Supplied by test requester |

Spot check test:

| Item | Equipment    | Brand                                                                               | Model No.         | Series No. | Remarks                    |
|------|--------------|-------------------------------------------------------------------------------------|-------------------|------------|----------------------------|
| A    | Power Supply | TWINTEX                                                                             | Power Supply      | N/A        | Furnished by test lab.     |
| B    | Antenna      |  | MA173. A. LBI.001 | N/A        | Supplied by test requester |

| Item | Shielded | Ferrite Core | Length | Cable Type | Remarks                    |
|------|----------|--------------|--------|------------|----------------------------|
| 1    | N/A      | N/A          | 2m     | Power Cord | Supplied by test requester |

### 3 ERP TEST

#### 3.1 LIMIT

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts (38.45 dBm).

NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

| Reading Level |   | Correct Factor |   | Measurement Value |
|---------------|---|----------------|---|-------------------|
| -29.66        | + | 34.26          | = | 4.60              |

| Measurement Value |   | Limit Value |   | Margin Level |
|-------------------|---|-------------|---|--------------|
| 4.60              | - | 38.45       | = | -33.85       |

#### 3.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

##### EIRP / ERP Power Measurement:

EIRP = Conducted Power + Antenna gain.

ERP power = EIPR power - 2.15 dBi.

##### Conducted Measurement:

The EUT was set up for the maximum power with WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

##### Radiated Measurement:

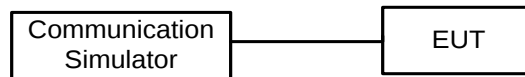
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- ERP can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR - 2.15dBi..
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

#### 3.3 DEVIATION FROM TEST STANDARD

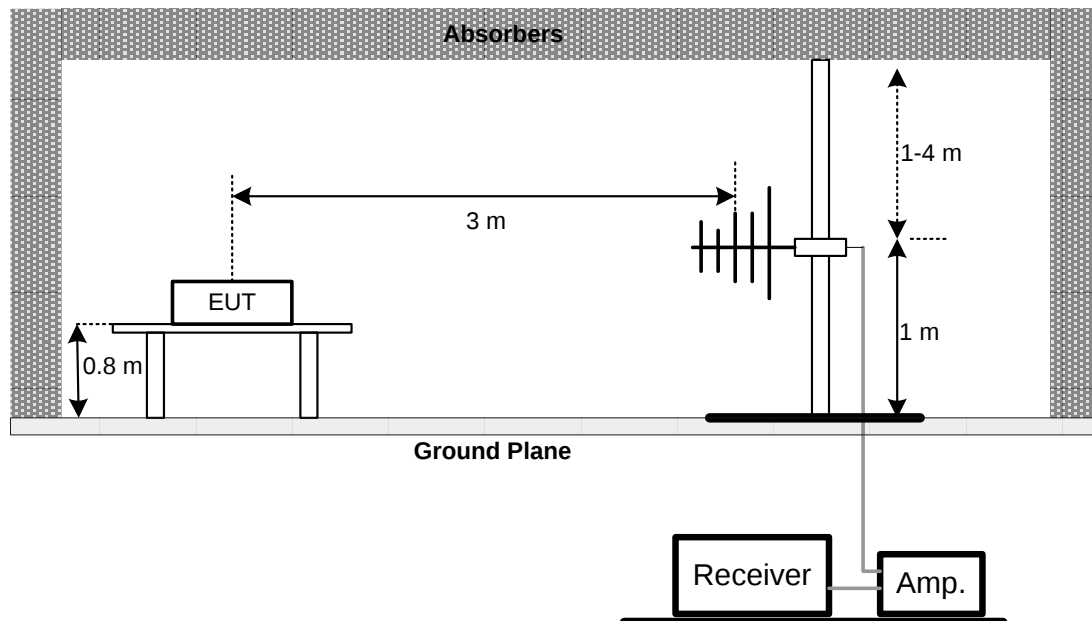
No deviation.

## 3.4 TEST SETUP

### Conducted Measurement:



### Radiated Measurement:



## 3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 3.6 TEST RESULT

Please refer to the APPENDIX A.

## 4 OCCUPIED BANDWIDTH MEASUREMENT

### 4.1 TEST PROCEDURE

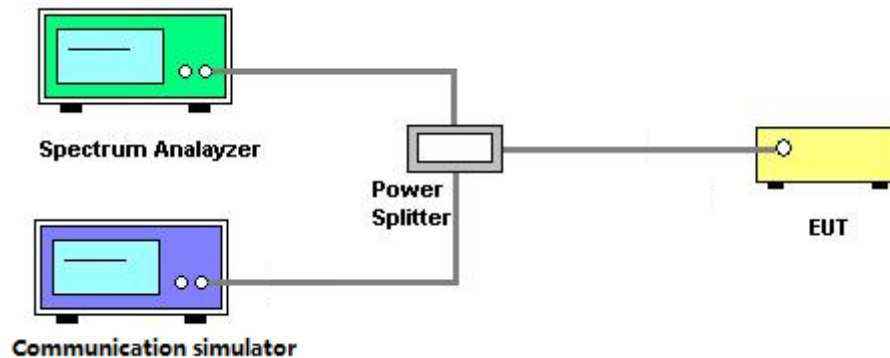
The testing follows FCC KDB 971168 v03r01 Section 4.

- The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
- The EUT was connected to spectrum analyzer and system simulator via a power divider.
- $RBW = (1\% \sim 5\%) * EBW$   
 $VBW \geq 3 * RBW$ .
- Set spectrum analyzer with Peak detector.

### 4.2 DEVIATION FROM TEST STANDARD

No deviation.

### 4.3 TEST SETUP



### 4.4 TEST RESULT

Please refer to the APPENDIX B

## 5 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

### 5.1 LIMIT

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. The emission limit equal to -13dBm.

### 5.2 TEST PROCEDURE

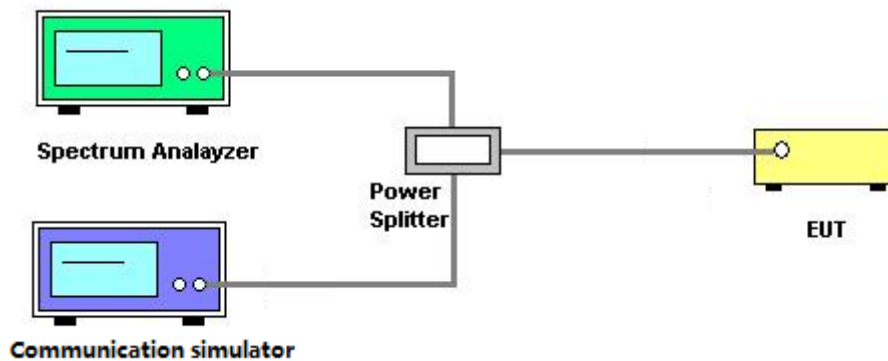
The testing follows FCC KDB 971168 v03r01 Section 6.

- The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The band edges of low and high channels for the highest RF powers were measured. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- Set spectrum analyzer with Peak detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 TEST RESULT

Please refer to the APPENDIX C

## 6 RADIATED SPURIOUS EMISSIONS TEST

### 6.1 LIMIT

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. The emission limit equal to -13dBm.

NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

| Reading Level |   | Correct Factor |   | Measurement Value |
|---------------|---|----------------|---|-------------------|
| -50.43        | + | -2.11          | = | -52.54            |

| Measurement Value |   | Limit Value |   | Margin Level |
|-------------------|---|-------------|---|--------------|
| -52.54            | - | -13         | = | -39.54       |

### 6.2 TEST PROCEDURE

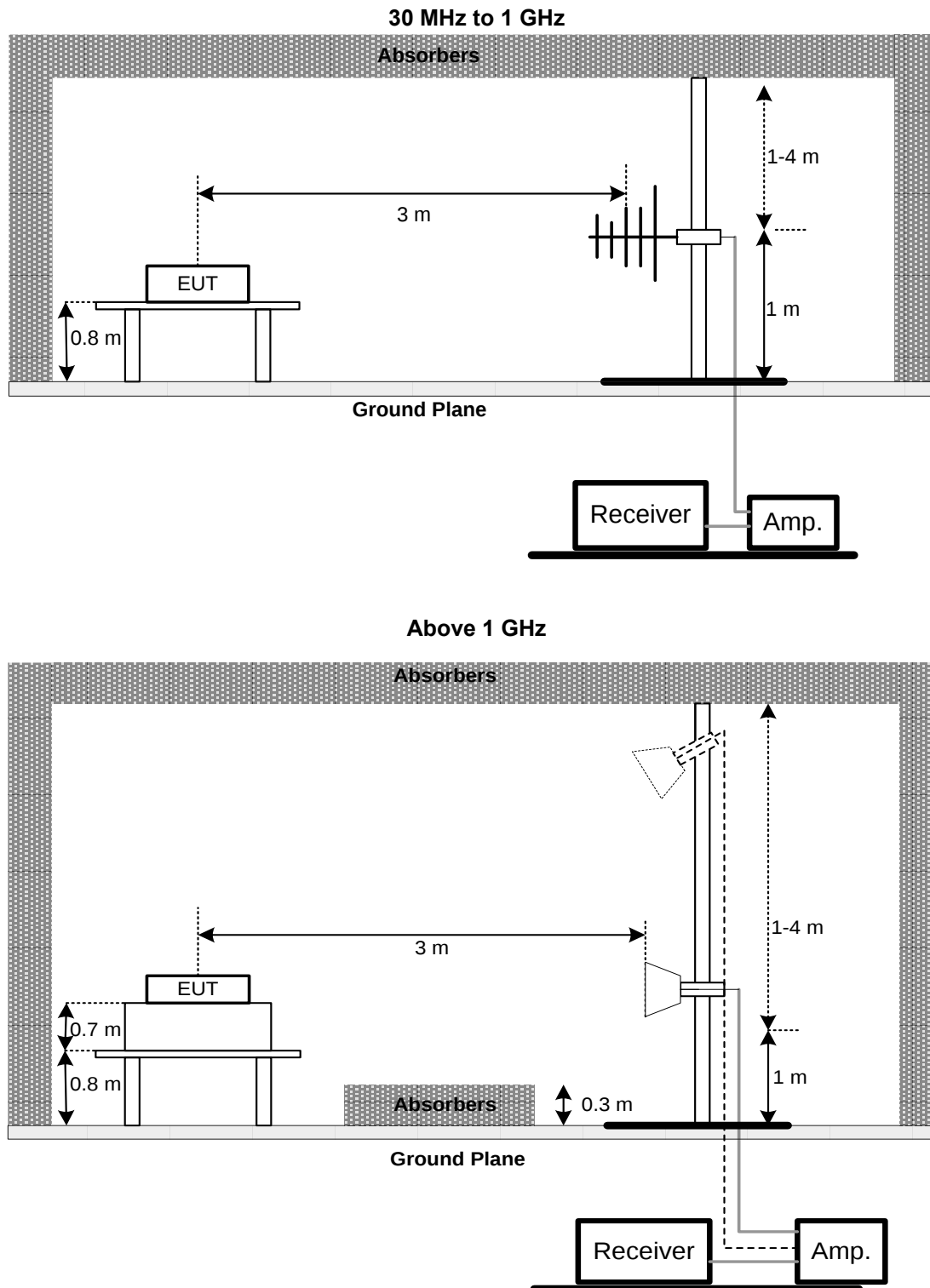
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- EIRP = Output power level of S.G - TX cable loss + Antenna gain of substitution horn.
- ERP can be calculated form EIRP by subtracting the gain of dipole,  $ERP = EIPR - 2.15\text{dBi}$ .
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

### 6.3 DEVIATION FROM TEST STANDARD

No deviation.

## 6.4 TEST SETUP



## 6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 6.6 TEST RESULT

Please refer to the APPENDIX D

## 7 BAND EDGE MEASUREMENT

### 7.1 LIMIT

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

### 7.2 TEST PROCEDURE

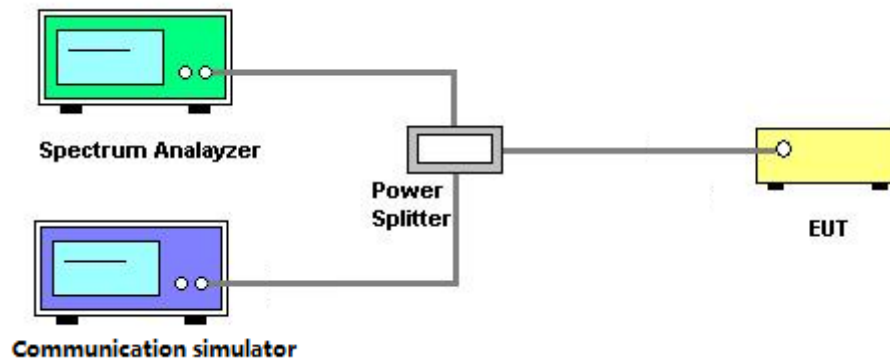
The testing follows FCC KDB 971168 v03r01 Section 6.

- All measurements were done at low and high operational frequency range.
- Record the max trace plot into the test report.

### 7.3 DEVIATION FROM TEST STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 TEST RESULT

Please refer to the APPENDIX E

## 8 PEAK TO AVERAGE RATIO MEASUREMENT

### 8.1 LIMIT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 8.2 TEST PROCEDURE

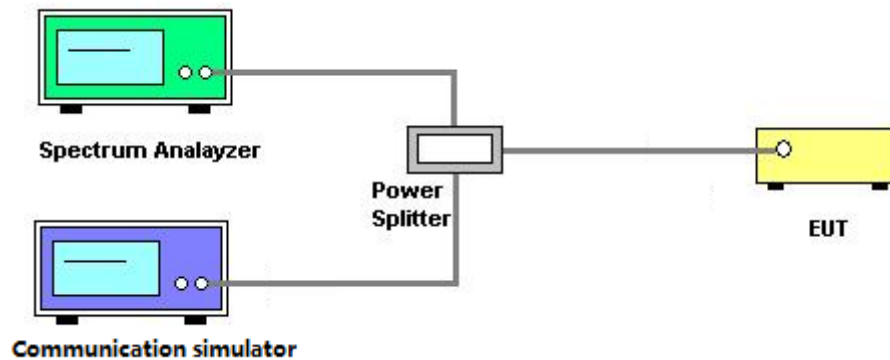
The testing follows FCC KDB 971168 v03r01 Section 5.7.

- Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

### 8.3 DEVIATION FROM TEST STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 TEST RESULT

Please refer to the APPENDIX F

## 9 FREQUENCY STABILITY MEASUREMENT

### 9.1 LIMIT

$\pm 1.5$  ppm is for base and fixed station.  $\pm 2.5$  ppm is for mobile station.

### 9.2 TEST PROCEDURE

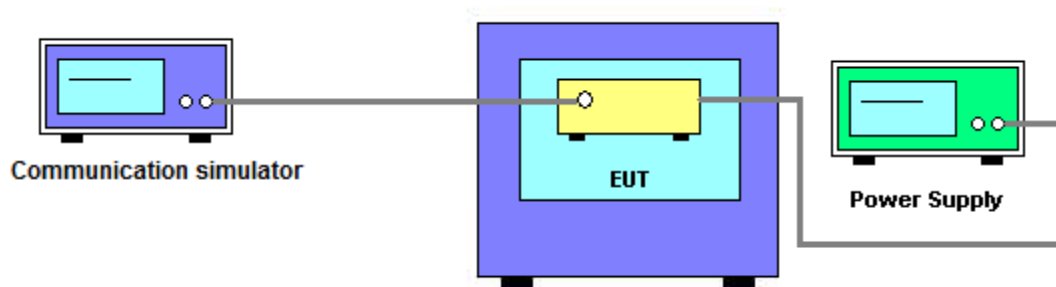
The testing follows FCC KDB 971168 v03r01 Section 9.

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error..
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
- The frequency error was recorded frequency error from the communication simulator.

### 9.3 DEVIATION FROM TEST STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 TEST RESULT

Please refer to the APPENDIX G

## 10 LIST OF MEASURING EQUIPMENTS

| RF Power Output |                                      |              |          |            |                 |                  |
|-----------------|--------------------------------------|--------------|----------|------------|-----------------|------------------|
| Item            | Kind of Equipment                    | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1               | 8960 Series 10 Wireless Com Test Set | Agilent      | E5515C   | GB47390193 | 2020/6/4        | 2021/6/3         |
| 2               | Radio Communication Analyzer         | Anritsu      | MT8820C  | 6201525878 | 2020/6/19       | 2021/6/18        |

| Radiated Spurious Emissions |                                      |              |                             |               |                 |                  |
|-----------------------------|--------------------------------------|--------------|-----------------------------|---------------|-----------------|------------------|
| Item                        | Kind of Equipment                    | Manufacturer | Type No.                    | Serial No.    | Calibrated Date | Calibrated Until |
| 1                           | Preamplifier                         | EMCI         | EMC02325B                   | 980217        | 2021/4/8        | 2022/4/7         |
| 2                           | Preamplifier                         | EMCI         | EMC012645B                  | 980267        | 2021/4/8        | 2022/4/7         |
| 3                           | Test Cable                           | EMCI         | EMC-SM-SM-1000              | 180809        | 2021/4/8        | 2022/4/7         |
| 4                           | Test Cable                           | EMCI         | EMC104-SM-SM-3000           | 151205        | 2021/4/8        | 2022/4/7         |
| 5                           | Test Cable                           | EMCI         | EMC-SM-SM-7000              | 180408        | 2021/4/8        | 2022/4/7         |
| 6                           | MXE EMI Receiver                     | Agilent      | N9038A                      | MY554200087   | 2021/5/27       | 2022/5/26        |
| 7                           | Signal Analyzer                      | Agilent      | N9010A                      | MY56480554    | 2021/8/25       | 2022/8/24        |
| 8                           | Horn Ant                             | SCHWARZBECK  | BBHA 9120D                  | 9120D-1342    | 2021/6/2        | 2022/6/1         |
| 9                           | Trilog-Broadband Antenna             | Schwarzbeck  | VULB 9168                   | VULB 9168-352 | 2021/8/11       | 2022/8/10        |
| 10                          | 5dB Attenuator                       | EMCI         | EMCI-N-6-05                 | AT-N0625      | 2021/8/11       | 2022/8/10        |
| 11                          | Measurement Software                 | EZ           | EZ EMC (Version NB-03A1-01) | N/A           | N/A             | N/A              |
| 12                          | 8960 Series 10 Wireless Com Test Set | Agilent      | E5515C                      | GB47390193    | 2020/7/23       | 2021/7/22        |
| 13                          | Radio Communication Analyzer (LTE)   | Anritsu      | MT8820C                     | 6201381608    | 2021/1/7        | 2022/1/6         |

| Frequency Stability Measurement |                                      |              |          |            |                 |                  |
|---------------------------------|--------------------------------------|--------------|----------|------------|-----------------|------------------|
| Item                            | Kind of Equipment                    | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1                               | 8960 Series 10 Wireless Com Test Set | Agilent      | E5515C   | GB47390193 | 2020/6/4        | 2021/6/3         |
| 2                               | Radio Communication Analyzer         | Anritsu      | MT8820C  | 6201525878 | 2020/6/19       | 2021/6/18        |

| Others Conducted Measurement |                   |              |          |            |                 |                  |
|------------------------------|-------------------|--------------|----------|------------|-----------------|------------------|
| Item                         | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1                            | Spectrum Analyzer | R&S          | FSP40    | 100129     | 2020/5/22       | 2021/5/21        |

Spot check test:

| RF Power Output |                                      |              |          |            |                 |                  |
|-----------------|--------------------------------------|--------------|----------|------------|-----------------|------------------|
| Item            | Kind of Equipment                    | Manufacturer | Type No. | Serial No. | Calibrated Date | Calibrated Until |
| 1               | 8960 Series 10 Wireless Com Test Set | Agilent      | E5515C   | GB47390193 | 2022/7/7        | 2023/7/6         |
| 2               | Radio Communication Analyzer         | Anritsu      | MT8820C  | 6201381608 | 2021/12/15      | 2022/12/14       |
| 3               | Spectrum Analyzer                    | Agilent      | N9010A   | MY54200240 | 2022/6/9        | 2023/6/8         |

| Radiated Spurious Emissions |                                      |              |                             |            |                 |                  |
|-----------------------------|--------------------------------------|--------------|-----------------------------|------------|-----------------|------------------|
| Item                        | Kind of Equipment                    | Manufacturer | Type No.                    | Serial No. | Calibrated Date | Calibrated Until |
| 1                           | Preamplifier                         | EMCI         | EMC330N                     | 980850     | 2022/9/19       | 2023/9/18        |
| 2                           | Preamplifier                         | EMCI         | EMC118A45SE                 | 980819     | 2022/3/8        | 2023/3/7         |
| 3                           | Test Cable                           | EMCI         | EMC104-SM-SM-1000           | 220319     | 2022/3/15       | 2023/3/14        |
| 4                           | Test Cable                           | EMCI         | EMC104-SM-SM-3000           | 220322     | 2022/3/15       | 2023/3/14        |
| 5                           | Test Cable                           | EMCI         | EMC104-SM-SM-7000           | 220324     | 2022/3/15       | 2023/3/14        |
| 6                           | EXA Signal Analyzer                  | keysight     | N9020B                      | MY57120120 | 2022/3/7        | 2023/3/6         |
| 7                           | Horn Ant                             | Schwarzbeck  | BBHA 9170D                  | 1136       | 2022/5/18       | 2023/5/17        |
| 8                           | Log-bicon Antenna                    | Schwarzbeck  | VULB9168                    | 1369       | 2022/5/20       | 2023/5/19        |
| 9                           | 6dB Attenuator                       | EMCI         | EMCI-N-6-06                 | AT-N0625   | 2022/5/20       | 2023/5/19        |
| 10                          | Measurement Software                 | EZ           | EZ EMC (Version NB-03A1-01) | N/A        | N/A             | N/A              |
| 11                          | 8960 Series 10 Wireless Com Test Set | Agilent      | E5515C                      | GB47390193 | 2022/7/7        | 2023/7/6         |
| 12                          | Radio Communication Analyzer (LTE)   | Anritsu      | MT8820C                     | 6201381608 | 2021/12/15      | 2022/12/14       |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.  
All calibration period of equipment list is one year.

**11 EUT TEST PHOTO**

Please refer to document Appendix No.: TP-2103T126B-FCCP-2 (APPENDIX-TEST PHOTOS).

**12 EUT PHOTOS**

Please refer to document Appendix No.: EP-2103T126B-3 (APPENDIX-EUT PHOTOS).

## APPENDIX A   ERP

**ERP (Conducted):**

| Band         | UL/DL Channel No. | Frequency(MHz) | Average power(dBm) | Gain (dBi) | ERP (dBm) | ERP (W)      |
|--------------|-------------------|----------------|--------------------|------------|-----------|--------------|
| WCDMA Band V | 4132/4357         | 826.4          | 21.63              | 1.29       | 20.77     | 0.119        |
|              | 4183/4408         | 836.6          | 22.67              | 1.29       | 21.81     | <b>0.152</b> |
|              | 4233/4458         | 846.6          | 22.43              | 1.29       | 21.57     | 0.144        |

| Band         | Sub-test | UL/DL Channel | Frequency(MHz) | Average power(dBm) | Gain (dBi) | ERP (dBm) | ERP (W)      |
|--------------|----------|---------------|----------------|--------------------|------------|-----------|--------------|
| HSDPA Band V | 1        | 4132/4357     | 826.4          | 21.64              | 1.29       | 20.78     | 0.120        |
|              |          | 4183/4408     | 836.6          | 22.63              | 1.29       | 21.77     | 0.150        |
|              |          | 4233/4458     | 846.6          | 22.87              | 1.29       | 22.01     | <b>0.159</b> |
|              | 2        | 4132/4357     | 826.4          | 21.19              | 1.29       | 20.33     | 0.108        |
|              |          | 4183/4408     | 836.6          | 22.18              | 1.29       | 21.32     | 0.136        |
|              |          | 4233/4458     | 846.6          | 22.42              | 1.29       | 21.56     | 0.143        |
|              | 3        | 4132/4357     | 826.4          | 20.69              | 1.29       | 19.83     | 0.096        |
|              |          | 4183/4408     | 836.6          | 21.68              | 1.29       | 20.82     | 0.121        |
|              |          | 4233/4458     | 846.6          | 21.92              | 1.29       | 21.06     | 0.128        |
|              | 4        | 4132/4357     | 826.4          | 20.74              | 1.29       | 19.88     | 0.097        |
|              |          | 4183/4408     | 836.6          | 21.73              | 1.29       | 20.87     | 0.122        |
|              |          | 4233/4458     | 846.6          | 21.97              | 1.29       | 21.11     | 0.129        |

| Band         | Sub-test | UL/DL Channel | Frequency(MHz) | Average power(dBm) | Gain (dBi) | ERP (dBm) | ERP (W)      |
|--------------|----------|---------------|----------------|--------------------|------------|-----------|--------------|
| HSUPA Band V | 1        | 4132/4357     | 826.4          | 21.68              | 1.29       | 20.82     | 0.121        |
|              |          | 4183/4408     | 836.6          | 22.67              | 1.29       | 21.81     | 0.152        |
|              |          | 4233/4458     | 846.6          | 22.91              | 1.29       | 22.05     | <b>0.160</b> |
|              | 2        | 4132/4357     | 826.4          | 19.80              | 1.29       | 18.94     | 0.078        |
|              |          | 4183/4408     | 836.6          | 20.79              | 1.29       | 19.93     | 0.098        |
|              |          | 4233/4458     | 846.6          | 21.03              | 1.29       | 20.17     | 0.104        |
|              | 3        | 4132/4357     | 826.4          | 20.80              | 1.29       | 19.94     | 0.099        |
|              |          | 4183/4408     | 836.6          | 21.79              | 1.29       | 20.93     | 0.124        |
|              |          | 4233/4458     | 846.6          | 22.03              | 1.29       | 21.17     | 0.131        |
|              | 4        | 4132/4357     | 826.4          | 19.82              | 1.29       | 18.96     | 0.079        |
|              |          | 4183/4408     | 836.6          | 20.81              | 1.29       | 19.95     | 0.099        |
|              |          | 4233/4458     | 846.6          | 21.05              | 1.29       | 20.19     | 0.104        |
|              | 5        | 4132/4357     | 826.4          | 21.59              | 1.29       | 20.73     | 0.118        |
|              |          | 4183/4408     | 836.6          | 22.58              | 1.29       | 21.72     | 0.149        |
|              |          | 4233/4458     | 846.6          | 22.82              | 1.29       | 21.96     | 0.157        |

**NOTE:**

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (4) The maximum antenna gain is applied.

## Spot check test:

| Band         | Mode   | UL/DL<br>Channel No. | Frequency(MHz) | Average<br>power(dBm) | ERP Power<br>(dBm) | ERP Power<br>(W) |
|--------------|--------|----------------------|----------------|-----------------------|--------------------|------------------|
| WCDMA Band V | Rel 99 | 4132/4357            | 826.4          | 22.37                 | 20.40              | 0.110            |
|              |        | 4183/4408            | 836.6          | 22.58                 | 20.61              | 0.115            |
|              |        | 4233/4458            | 846.6          | 22.66                 | 20.69              | 0.117            |

| Band    | Sub-test | UL/DL<br>Channel No. | Frequency(MHz) | Average<br>power(dBm) | ERP Power<br>(dBm) | ERP Power<br>(W) |
|---------|----------|----------------------|----------------|-----------------------|--------------------|------------------|
| HSDPA V | 1        | 4132/4357            | 826.4          | 22.75                 | 20.78              | 0.120            |
|         |          | 4183/4408            | 836.6          | 22.82                 | 20.85              | 0.122            |
|         |          | 4233/4458            | 846.6          | 22.83                 | 20.86              | 0.122            |
|         | 2        | 4132/4357            | 826.4          | 22.25                 | 20.28              | 0.107            |
|         |          | 4183/4408            | 836.6          | 22.34                 | 20.37              | 0.109            |
|         |          | 4233/4458            | 846.6          | 22.33                 | 20.36              | 0.109            |
|         | 3        | 4132/4357            | 826.4          | 21.76                 | 19.79              | 0.095            |
|         |          | 4183/4408            | 836.6          | 21.85                 | 19.88              | 0.097            |
|         |          | 4233/4458            | 846.6          | 21.88                 | 19.91              | 0.098            |
|         | 4        | 4132/4357            | 826.4          | 21.80                 | 19.83              | 0.096            |
|         |          | 4183/4408            | 836.6          | 21.89                 | 19.92              | 0.098            |
|         |          | 4233/4458            | 846.6          | 21.85                 | 19.88              | 0.097            |

| Band    | Sub-test | UL/DL<br>Channel No. | Frequency(MHz) | Average<br>power(dBm) | ERP Power<br>(dBm) | ERP Power<br>(W) |
|---------|----------|----------------------|----------------|-----------------------|--------------------|------------------|
| HSUPA V | 1        | 4132/4357            | 826.4          | 22.63                 | 20.66              | 0.116            |
|         |          | 4183/4408            | 836.6          | 22.75                 | 20.78              | 0.120            |
|         |          | 4233/4458            | 846.6          | 22.75                 | 20.78              | 0.120            |
|         | 2        | 4132/4357            | 826.4          | 20.65                 | 18.68              | 0.074            |
|         |          | 4183/4408            | 836.6          | 20.80                 | 18.83              | 0.076            |
|         |          | 4233/4458            | 846.6          | 20.76                 | 18.79              | 0.076            |
|         | 3        | 4132/4357            | 826.4          | 21.68                 | 19.71              | 0.094            |
|         |          | 4183/4408            | 836.6          | 21.79                 | 19.82              | 0.096            |
|         |          | 4233/4458            | 846.6          | 21.76                 | 19.79              | 0.095            |
|         | 4        | 4132/4357            | 826.4          | 20.68                 | 18.71              | 0.074            |
|         |          | 4183/4408            | 836.6          | 20.76                 | 18.79              | 0.076            |
|         |          | 4233/4458            | 846.6          | 20.78                 | 18.81              | 0.076            |
|         | 5        | 4132/4357            | 826.4          | 22.58                 | 20.61              | 0.115            |
|         |          | 4183/4408            | 836.6          | 22.68                 | 20.71              | 0.118            |
|         |          | 4233/4458            | 846.6          | 22.66                 | 20.69              | 0.117            |

## NOTE:

- (1) Antenna gain: 0.18 dBi.
- (2) EIRP = Average power + Antenna gain.
- (3) ERP = EIRP - 2.15.
- (4)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (5) The maximum antenna gain is applied.

| Band | BW (MHz) | Channel | Frequency (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power | Gain (dBi) | ERP (dBm) | ERP (W)      |
|------|----------|---------|-----------------|-------|------------------|--------------|-----|---------------|------------|-----------|--------------|
| 5    | 1.4      | 20407   | 824.7           | QPSK  | 1                | 0            | 0   | 23.76         | 1.29       | 22.90     | 0.195        |
|      |          |         |                 |       | 1                | 2            | 0   | 23.75         | 1.29       | 22.89     | 0.195        |
|      |          |         |                 |       | 1                | 5            | 0   | 23.66         | 1.29       | 22.80     | 0.191        |
|      |          |         |                 |       | 3                | 0            | 0   | 23.76         | 1.29       | 22.90     | 0.195        |
|      |          |         |                 |       | 3                | 1            | 0   | 23.75         | 1.29       | 22.89     | 0.195        |
|      |          |         |                 |       | 3                | 2            | 0   | 23.66         | 1.29       | 22.80     | 0.191        |
|      |          |         |                 | 16QAM | 6                | 0            | 1   | 22.82         | 1.29       | 21.96     | 0.157        |
|      |          |         |                 |       | 1                | 0            | 1   | 22.94         | 1.29       | 22.08     | 0.161        |
|      |          |         |                 |       | 1                | 2            | 1   | 22.90         | 1.29       | 22.04     | 0.160        |
|      |          |         |                 |       | 1                | 5            | 1   | 22.73         | 1.29       | 21.87     | 0.154        |
|      |          |         |                 |       | 3                | 0            | 1   | 22.94         | 1.29       | 22.08     | 0.161        |
|      |          |         |                 |       | 3                | 1            | 1   | 22.90         | 1.29       | 22.04     | 0.160        |
|      |          |         |                 |       | 3                | 2            | 1   | 22.73         | 1.29       | 21.87     | 0.154        |
|      |          |         |                 |       | 6                | 0            | 2   | 21.91         | 1.29       | 21.05     | 0.127        |
|      |          | 20525   | 836.5           | QPSK  | 1                | 0            | 0   | 23.83         | 1.29       | 22.97     | 0.198        |
|      |          |         |                 |       | 1                | 2            | 0   | 23.70         | 1.29       | 22.84     | 0.192        |
|      |          |         |                 |       | 1                | 5            | 0   | 23.61         | 1.29       | 22.75     | 0.188        |
|      |          |         |                 |       | 3                | 0            | 0   | 23.83         | 1.29       | 22.97     | 0.198        |
|      |          |         |                 |       | 3                | 1            | 0   | 23.70         | 1.29       | 22.84     | 0.192        |
|      |          |         |                 |       | 3                | 2            | 0   | 23.61         | 1.29       | 22.75     | 0.188        |
|      |          |         |                 | 16QAM | 6                | 0            | 1   | 22.89         | 1.29       | 22.03     | 0.160        |
|      |          |         |                 |       | 1                | 0            | 1   | 23.01         | 1.29       | 22.15     | 0.164        |
|      |          |         |                 |       | 1                | 2            | 1   | 22.97         | 1.29       | 22.11     | 0.163        |
|      |          |         |                 |       | 1                | 5            | 1   | 22.68         | 1.29       | 21.82     | 0.152        |
|      |          |         |                 |       | 3                | 0            | 1   | 23.01         | 1.29       | 22.15     | 0.164        |
|      |          |         |                 |       | 3                | 1            | 1   | 22.97         | 1.29       | 22.11     | 0.163        |
|      |          |         |                 |       | 3                | 2            | 1   | 22.68         | 1.29       | 21.82     | 0.152        |
|      |          |         |                 |       | 6                | 0            | 2   | 20.50         | 1.29       | 19.64     | 0.092        |
|      |          | 20642   | 848.2           | QPSK  | 1                | 0            | 0   | 23.86         | 1.29       | 23.00     | <b>0.200</b> |
|      |          |         |                 |       | 1                | 2            | 0   | 23.67         | 1.29       | 22.81     | 0.191        |
|      |          |         |                 |       | 1                | 5            | 0   | 23.58         | 1.29       | 22.72     | 0.187        |
|      |          |         |                 |       | 3                | 0            | 0   | 23.86         | 1.29       | 23.00     | <b>0.200</b> |
|      |          |         |                 |       | 3                | 1            | 0   | 23.67         | 1.29       | 22.81     | 0.191        |
|      |          |         |                 |       | 3                | 2            | 0   | 23.58         | 1.29       | 22.72     | 0.187        |
|      |          |         |                 | 16QAM | 6                | 0            | 1   | 22.92         | 1.29       | 22.06     | 0.161        |
|      |          |         |                 |       | 1                | 0            | 1   | 23.04         | 1.29       | 22.18     | <b>0.165</b> |
|      |          |         |                 |       | 1                | 2            | 1   | 23.00         | 1.29       | 22.14     | 0.164        |
|      |          |         |                 |       | 1                | 5            | 1   | 22.65         | 1.29       | 21.79     | 0.151        |
|      |          |         |                 |       | 3                | 0            | 1   | 23.04         | 1.29       | 22.18     | <b>0.165</b> |
|      |          |         |                 |       | 3                | 1            | 1   | 23.00         | 1.29       | 22.14     | 0.164        |
|      |          |         |                 |       | 3                | 2            | 1   | 22.65         | 1.29       | 21.79     | 0.151        |
|      |          |         |                 |       | 6                | 0            | 2   | 20.60         | 1.29       | 19.74     | 0.094        |

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

(4) The maximum antenna gain is applied.

| Band | BW (MHz) | Channel | Frequency (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power | Gain (dBi) | ERP (dBm) | ERP (W)      |
|------|----------|---------|-----------------|-------|------------------|--------------|-----|---------------|------------|-----------|--------------|
| 5    | 3        | 20415   | 825.5           | QPSK  | 1                | 0            | 0   | 23.81         | 1.29       | 22.95     | 0.197        |
|      |          |         |                 |       | 1                | 7            | 0   | 23.80         | 1.29       | 22.94     | 0.197        |
|      |          |         |                 |       | 1                | 14           | 0   | 23.71         | 1.29       | 22.85     | 0.193        |
|      |          |         |                 |       | 8                | 0            | 1   | 22.92         | 1.29       | 22.06     | 0.161        |
|      |          |         |                 |       | 8                | 4            | 1   | 22.84         | 1.29       | 21.98     | 0.158        |
|      |          |         |                 |       | 8                | 7            | 1   | 22.89         | 1.29       | 22.03     | 0.160        |
|      |          |         |                 | 16QAM | 15               | 0            | 1   | 22.87         | 1.29       | 22.01     | 0.159        |
|      |          |         |                 |       | 1                | 0            | 1   | 22.99         | 1.29       | 22.13     | 0.163        |
|      |          |         |                 |       | 1                | 7            | 1   | 22.95         | 1.29       | 22.09     | 0.162        |
|      |          |         |                 |       | 1                | 14           | 1   | 22.78         | 1.29       | 21.92     | 0.156        |
|      |          |         |                 |       | 8                | 0            | 2   | 21.82         | 1.29       | 20.96     | 0.125        |
|      |          |         |                 |       | 8                | 4            | 2   | 21.94         | 1.29       | 21.08     | 0.128        |
|      |          |         |                 |       | 8                | 7            | 2   | 21.74         | 1.29       | 20.88     | 0.122        |
|      |          |         |                 |       | 15               | 0            | 2   | 21.96         | 1.29       | 21.10     | 0.129        |
|      |          | 20525   | 836.5           | QPSK  | 1                | 0            | 0   | 23.88         | 1.29       | 23.02     | 0.200        |
|      |          |         |                 |       | 1                | 7            | 0   | 23.75         | 1.29       | 22.89     | 0.195        |
|      |          |         |                 |       | 1                | 14           | 0   | 23.66         | 1.29       | 22.80     | 0.191        |
|      |          |         |                 |       | 8                | 0            | 1   | 22.99         | 1.29       | 22.13     | 0.163        |
|      |          |         |                 |       | 8                | 4            | 1   | 22.79         | 1.29       | 21.93     | 0.156        |
|      |          |         |                 |       | 8                | 7            | 1   | 22.84         | 1.29       | 21.98     | 0.158        |
|      |          |         |                 | 16QAM | 15               | 0            | 1   | 22.94         | 1.29       | 22.08     | 0.161        |
|      |          |         |                 |       | 1                | 0            | 1   | 23.06         | 1.29       | 22.20     | 0.166        |
|      |          |         |                 |       | 1                | 7            | 1   | 23.02         | 1.29       | 22.16     | 0.164        |
|      |          |         |                 |       | 1                | 14           | 1   | 22.73         | 1.29       | 21.87     | 0.154        |
|      |          |         |                 |       | 8                | 0            | 2   | 21.89         | 1.29       | 21.03     | 0.127        |
|      |          |         |                 |       | 8                | 4            | 2   | 21.89         | 1.29       | 21.03     | 0.127        |
|      |          |         |                 |       | 8                | 7            | 2   | 21.69         | 1.29       | 20.83     | 0.121        |
|      |          |         |                 |       | 15               | 0            | 2   | 22.03         | 1.29       | 21.17     | 0.131        |
|      |          | 20634   | 847.4           | QPSK  | 1                | 0            | 0   | 23.91         | 1.29       | 23.05     | <b>0.202</b> |
|      |          |         |                 |       | 1                | 7            | 0   | 23.72         | 1.29       | 22.86     | 0.193        |
|      |          |         |                 |       | 1                | 14           | 0   | 23.63         | 1.29       | 22.77     | 0.189        |
|      |          |         |                 |       | 8                | 0            | 1   | 23.02         | 1.29       | 22.16     | 0.164        |
|      |          |         |                 |       | 8                | 4            | 1   | 22.76         | 1.29       | 21.90     | 0.155        |
|      |          |         |                 |       | 8                | 7            | 1   | 22.81         | 1.29       | 21.95     | 0.157        |
|      |          |         |                 | 16QAM | 15               | 0            | 1   | 22.97         | 1.29       | 22.11     | 0.163        |
|      |          |         |                 |       | 1                | 0            | 1   | 23.09         | 1.29       | 22.23     | <b>0.167</b> |
|      |          |         |                 |       | 1                | 7            | 1   | 23.05         | 1.29       | 22.19     | 0.166        |
|      |          |         |                 |       | 1                | 14           | 1   | 22.70         | 1.29       | 21.84     | 0.153        |
|      |          |         |                 |       | 8                | 0            | 2   | 21.92         | 1.29       | 21.06     | 0.128        |
|      |          |         |                 |       | 8                | 4            | 2   | 21.86         | 1.29       | 21.00     | 0.126        |
|      |          |         |                 |       | 8                | 7            | 2   | 21.66         | 1.29       | 20.80     | 0.120        |
|      |          |         |                 |       | 15               | 0            | 2   | 22.06         | 1.29       | 21.20     | 0.132        |

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

(4) The maximum antenna gain is applied.

| Band | BW (MHz) | Channel | Frequency (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power | Gain (dBi) | ERP (dBm) | ERP (W)      |
|------|----------|---------|-----------------|-------|------------------|--------------|-----|---------------|------------|-----------|--------------|
| 5    | 5        | 20425   | 826.5           | QPSK  | 1                | 0            | 0   | 23.86         | 1.29       | 23.00     | 0.200        |
|      |          |         |                 |       | 1                | 12           | 0   | 23.85         | 1.29       | 22.99     | 0.199        |
|      |          |         |                 |       | 1                | 24           | 0   | 23.76         | 1.29       | 22.90     | 0.195        |
|      |          |         |                 |       | 12               | 0            | 1   | 22.97         | 1.29       | 22.11     | 0.163        |
|      |          |         |                 |       | 12               | 6            | 1   | 22.89         | 1.29       | 22.03     | 0.160        |
|      |          |         |                 |       | 12               | 11           | 1   | 22.94         | 1.29       | 22.08     | 0.161        |
|      |          |         |                 | 16QAM | 25               | 0            | 1   | 22.92         | 1.29       | 22.06     | 0.161        |
|      |          |         |                 |       | 1                | 0            | 1   | 23.04         | 1.29       | 22.18     | 0.165        |
|      |          |         |                 |       | 1                | 12           | 1   | 23.00         | 1.29       | 22.14     | 0.164        |
|      |          |         |                 |       | 1                | 24           | 1   | 22.83         | 1.29       | 21.97     | 0.157        |
|      |          |         |                 |       | 12               | 0            | 2   | 21.87         | 1.29       | 21.01     | 0.126        |
|      |          |         |                 |       | 12               | 6            | 2   | 21.99         | 1.29       | 21.13     | 0.130        |
|      |          |         |                 |       | 12               | 11           | 2   | 21.79         | 1.29       | 20.93     | 0.124        |
|      |          |         |                 |       | 25               | 0            | 2   | 22.01         | 1.29       | 21.15     | 0.130        |
|      |          | 20525   | 836.5           | QPSK  | 1                | 0            | 0   | 23.93         | 1.29       | 23.07     | 0.203        |
|      |          |         |                 |       | 1                | 12           | 0   | 23.80         | 1.29       | 22.94     | 0.197        |
|      |          |         |                 |       | 1                | 24           | 0   | 23.71         | 1.29       | 22.85     | 0.193        |
|      |          |         |                 |       | 12               | 0            | 1   | 23.04         | 1.29       | 22.18     | 0.165        |
|      |          |         |                 |       | 12               | 6            | 1   | 22.84         | 1.29       | 21.98     | 0.158        |
|      |          |         |                 |       | 12               | 11           | 1   | 22.89         | 1.29       | 22.03     | 0.160        |
|      |          |         |                 | 16QAM | 25               | 0            | 1   | 22.99         | 1.29       | 22.13     | 0.163        |
|      |          |         |                 |       | 1                | 0            | 1   | 23.11         | 1.29       | 22.25     | 0.168        |
|      |          |         |                 |       | 1                | 12           | 1   | 23.07         | 1.29       | 22.21     | 0.166        |
|      |          |         |                 |       | 1                | 24           | 1   | 22.78         | 1.29       | 21.92     | 0.156        |
|      |          |         |                 |       | 12               | 0            | 2   | 21.94         | 1.29       | 21.08     | 0.128        |
|      |          |         |                 |       | 12               | 6            | 2   | 21.94         | 1.29       | 21.08     | 0.128        |
|      |          |         |                 |       | 12               | 11           | 2   | 21.74         | 1.29       | 20.88     | 0.122        |
|      |          |         |                 |       | 25               | 0            | 2   | 22.08         | 1.29       | 21.22     | 0.132        |
|      |          | 20625   | 846.5           | QPSK  | 1                | 0            | 0   | 23.96         | 1.29       | 23.10     | <b>0.204</b> |
|      |          |         |                 |       | 1                | 12           | 0   | 23.77         | 1.29       | 22.91     | 0.195        |
|      |          |         |                 |       | 1                | 24           | 0   | 23.68         | 1.29       | 22.82     | 0.191        |
|      |          |         |                 |       | 12               | 0            | 1   | 23.07         | 1.29       | 22.21     | 0.166        |
|      |          |         |                 |       | 12               | 6            | 1   | 22.81         | 1.29       | 21.95     | 0.157        |
|      |          |         |                 |       | 12               | 11           | 1   | 22.86         | 1.29       | 22.00     | 0.158        |
|      |          |         |                 | 16QAM | 25               | 0            | 1   | 23.02         | 1.29       | 22.16     | 0.164        |
|      |          |         |                 |       | 1                | 0            | 1   | 23.14         | 1.29       | 22.28     | <b>0.169</b> |
|      |          |         |                 |       | 1                | 12           | 1   | 23.10         | 1.29       | 22.24     | 0.167        |
|      |          |         |                 |       | 1                | 24           | 1   | 22.75         | 1.29       | 21.89     | 0.155        |
|      |          |         |                 |       | 12               | 0            | 2   | 21.97         | 1.29       | 21.11     | 0.129        |
|      |          |         |                 |       | 12               | 6            | 2   | 21.91         | 1.29       | 21.05     | 0.127        |
|      |          |         |                 |       | 12               | 11           | 2   | 21.71         | 1.29       | 20.85     | 0.122        |
|      |          |         |                 |       | 25               | 0            | 2   | 22.11         | 1.29       | 21.25     | 0.133        |

NOTE:

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$
- (4) The maximum antenna gain is applied.

| Band | BW<br>(MHz) | Channel | Frequency<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power | Gain<br>(dBi) | ERP<br>(dBm) | ERP<br>(W)   |
|------|-------------|---------|--------------------|-------|---------------------|-----------------|-----|------------------|---------------|--------------|--------------|
| 5    | 10          | 20450   | 829.0              | QPSK  | 1                   | 0               | 0   | 23.91            | 1.29          | 23.05        | 0.202        |
|      |             |         |                    |       | 1                   | 24              | 0   | 23.90            | 1.29          | 23.04        | 0.201        |
|      |             |         |                    |       | 1                   | 49              | 0   | 23.81            | 1.29          | 22.95        | 0.197        |
|      |             |         |                    |       | 25                  | 0               | 1   | 23.02            | 1.29          | 22.16        | 0.164        |
|      |             |         |                    |       | 25                  | 12              | 1   | 22.94            | 1.29          | 22.08        | 0.161        |
|      |             |         |                    |       | 25                  | 24              | 1   | 22.99            | 1.29          | 22.13        | 0.163        |
|      |             |         |                    |       | 50                  | 0               | 1   | 22.97            | 1.29          | 22.11        | 0.163        |
|      |             |         |                    | 16QAM | 1                   | 0               | 1   | 23.09            | 1.29          | 22.23        | 0.167        |
|      |             |         |                    |       | 1                   | 24              | 1   | 23.05            | 1.29          | 22.19        | 0.166        |
|      |             |         |                    |       | 1                   | 49              | 1   | 22.88            | 1.29          | 22.02        | 0.159        |
|      |             |         |                    |       | 25                  | 0               | 2   | 21.92            | 1.29          | 21.06        | 0.128        |
|      |             |         |                    |       | 25                  | 12              | 2   | 22.04            | 1.29          | 21.18        | 0.131        |
|      |             |         |                    |       | 25                  | 24              | 2   | 21.84            | 1.29          | 20.98        | 0.125        |
|      |             |         |                    |       | 50                  | 0               | 2   | 22.06            | 1.29          | 21.20        | 0.132        |
|      |             | 20525   | 836.5              | QPSK  | 1                   | 0               | 0   | 23.98            | 1.29          | 23.12        | 0.205        |
|      |             |         |                    |       | 1                   | 24              | 0   | 23.85            | 1.29          | 22.99        | 0.199        |
|      |             |         |                    |       | 1                   | 49              | 0   | 23.76            | 1.29          | 22.90        | 0.195        |
|      |             |         |                    |       | 25                  | 0               | 1   | 23.09            | 1.29          | 22.23        | 0.167        |
|      |             |         |                    |       | 25                  | 12              | 1   | 22.89            | 1.29          | 22.03        | 0.160        |
|      |             |         |                    |       | 25                  | 24              | 1   | 22.94            | 1.29          | 22.08        | 0.161        |
|      |             |         |                    |       | 50                  | 0               | 1   | 23.04            | 1.29          | 22.18        | 0.165        |
|      |             |         |                    | 16QAM | 1                   | 0               | 1   | 23.16            | 1.29          | 22.30        | 0.170        |
|      |             |         |                    |       | 1                   | 24              | 1   | 23.12            | 1.29          | 22.26        | 0.168        |
|      |             |         |                    |       | 1                   | 49              | 1   | 22.83            | 1.29          | 21.97        | 0.157        |
|      |             |         |                    |       | 25                  | 0               | 2   | 21.99            | 1.29          | 21.13        | 0.130        |
|      |             |         |                    |       | 25                  | 12              | 2   | 21.99            | 1.29          | 21.13        | 0.130        |
|      |             |         |                    |       | 25                  | 24              | 2   | 21.79            | 1.29          | 20.93        | 0.124        |
|      |             |         |                    |       | 50                  | 0               | 2   | 22.13            | 1.29          | 21.27        | 0.134        |
|      |             | 20600   | 844.0              | QPSK  | 1                   | 0               | 0   | 24.01            | 1.29          | 23.15        | <b>0.207</b> |
|      |             |         |                    |       | 1                   | 24              | 0   | 23.82            | 1.29          | 22.96        | 0.198        |
|      |             |         |                    |       | 1                   | 49              | 0   | 23.73            | 1.29          | 22.87        | 0.194        |
|      |             |         |                    |       | 25                  | 0               | 1   | 23.12            | 1.29          | 22.26        | 0.168        |
|      |             |         |                    |       | 25                  | 12              | 1   | 22.86            | 1.29          | 22.00        | 0.158        |
|      |             |         |                    |       | 25                  | 24              | 1   | 22.91            | 1.29          | 22.05        | 0.160        |
|      |             |         |                    |       | 50                  | 0               | 1   | 23.07            | 1.29          | 22.21        | 0.166        |
|      |             |         |                    | 16QAM | 1                   | 0               | 1   | 23.19            | 1.29          | 22.33        | <b>0.171</b> |
|      |             |         |                    |       | 1                   | 24              | 1   | 23.15            | 1.29          | 22.29        | 0.169        |
|      |             |         |                    |       | 1                   | 49              | 1   | 22.80            | 1.29          | 21.94        | 0.156        |
|      |             |         |                    |       | 25                  | 0               | 2   | 22.02            | 1.29          | 21.16        | 0.131        |
|      |             |         |                    |       | 25                  | 12              | 2   | 21.96            | 1.29          | 21.10        | 0.129        |
|      |             |         |                    |       | 25                  | 24              | 2   | 21.76            | 1.29          | 20.90        | 0.123        |
|      |             |         |                    |       | 50                  | 0               | 2   | 22.16            | 1.29          | 21.30        | 0.135        |

NOTE:

- (1) EIRP = Average power + Antenna gain.
- (2) ERP = EIRP - 2.15.
- (3)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$
- (4) The maximum antenna gain is applied.

## Spot check test:

| Band | BW (MHz) | Channel | Frequency (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | ERP power (dBm) | ERP power (W) |
|------|----------|---------|-----------------|-------|------------------|--------------|-----|---------------------|-----------------|---------------|
| 5    | 1.4      | 20407   | 824.7           | QPSK  | 1                | 0            | 0   | 22.48               | 20.51           | 0.112         |
|      |          |         |                 |       | 1                | 2            | 0   | 21.92               | 19.95           | 0.099         |
|      |          |         |                 |       | 1                | 5            | 0   | 21.78               | 19.81           | 0.096         |
|      |          |         |                 |       | 3                | 0            | 0   | 22.48               | 20.51           | 0.112         |
|      |          |         |                 |       | 3                | 1            | 0   | 21.92               | 19.95           | 0.099         |
|      |          |         |                 |       | 3                | 2            | 0   | 21.78               | 19.81           | 0.096         |
|      |          |         |                 | 16QAM | 6                | 0            | 1   | 21.59               | 19.62           | 0.092         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.57               | 19.60           | 0.091         |
|      |          |         |                 |       | 1                | 2            | 1   | 21.02               | 19.05           | 0.080         |
|      |          |         |                 |       | 1                | 5            | 1   | 20.89               | 18.92           | 0.078         |
|      |          |         |                 |       | 3                | 0            | 1   | 21.57               | 19.60           | 0.091         |
|      |          |         |                 |       | 3                | 1            | 1   | 21.02               | 19.05           | 0.080         |
|      |          | 20525   | 836.5           | QPSK  | 3                | 2            | 1   | 20.89               | 18.92           | 0.078         |
|      |          |         |                 |       | 6                | 0            | 2   | 19.95               | 17.98           | 0.063         |
|      |          |         |                 |       | 1                | 0            | 0   | 22.22               | 20.25           | 0.106         |
|      |          |         |                 |       | 1                | 2            | 0   | 21.76               | 19.79           | 0.095         |
|      |          |         |                 |       | 1                | 5            | 0   | 21.73               | 19.76           | 0.095         |
|      |          |         |                 |       | 3                | 0            | 0   | 22.22               | 20.25           | 0.106         |
|      |          |         |                 | 16QAM | 3                | 1            | 0   | 21.76               | 19.79           | 0.095         |
|      |          |         |                 |       | 3                | 2            | 0   | 21.73               | 19.76           | 0.095         |
|      |          |         |                 |       | 6                | 0            | 1   | 21.33               | 19.36           | 0.086         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.31               | 19.34           | 0.086         |
|      |          |         |                 |       | 1                | 2            | 1   | 20.86               | 18.89           | 0.077         |
|      |          |         |                 |       | 1                | 5            | 1   | 20.84               | 18.87           | 0.077         |
|      |          | 20643   | 848.3           | QPSK  | 3                | 0            | 1   | 21.31               | 19.34           | 0.086         |
|      |          |         |                 |       | 3                | 1            | 1   | 20.86               | 18.89           | 0.077         |
|      |          |         |                 |       | 3                | 2            | 1   | 20.84               | 18.87           | 0.077         |
|      |          |         |                 |       | 6                | 0            | 2   | 19.78               | 17.81           | 0.060         |
|      |          |         |                 |       | 1                | 0            | 0   | 22.61               | 20.64           | 0.116         |
|      |          |         |                 |       | 1                | 2            | 0   | 22.00               | 20.03           | 0.101         |
|      |          |         |                 | 16QAM | 1                | 5            | 0   | 21.86               | 19.89           | 0.097         |
|      |          |         |                 |       | 3                | 0            | 0   | 22.61               | 20.64           | 0.116         |
|      |          |         |                 |       | 3                | 1            | 0   | 22.00               | 20.03           | 0.101         |
|      |          |         |                 |       | 3                | 2            | 0   | 21.86               | 19.89           | 0.097         |
|      |          |         |                 |       | 6                | 0            | 1   | 21.72               | 19.75           | 0.094         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.70               | 19.73           | 0.094         |
|      |          |         |                 |       | 1                | 2            | 1   | 21.10               | 19.13           | 0.082         |
|      |          |         |                 |       | 1                | 5            | 1   | 20.97               | 19.00           | 0.079         |
|      |          |         |                 |       | 3                | 0            | 1   | 21.70               | 19.73           | 0.094         |
|      |          |         |                 |       | 3                | 1            | 1   | 21.10               | 19.13           | 0.082         |
|      |          |         |                 |       | 3                | 2            | 1   | 20.97               | 19.00           | 0.079         |
|      |          |         |                 |       | 6                | 0            | 2   | 19.91               | 17.94           | 0.062         |

## NOTE:

- (1) Antenna gain: 0.18 dBi.
- (2) EIRP = Average power + Antenna gain.
- (3) ERP = EIRP - 2.15.
- (4)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (5) The maximum antenna gain is applied.

| Band | BW (MHz) | Channel | Frequency (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | ERP power (dBm) | ERP power (W) |
|------|----------|---------|-----------------|-------|------------------|--------------|-----|---------------------|-----------------|---------------|
| 5    | 3        | 20415   | 825.5           | QPSK  | 1                | 0            | 0   | 22.53               | 20.56           | 0.114         |
|      |          |         |                 |       | 1                | 7            | 0   | 21.97               | 20.00           | 0.100         |
|      |          |         |                 |       | 1                | 14           | 0   | 21.83               | 19.86           | 0.097         |
|      |          |         |                 |       | 8                | 0            | 1   | 21.64               | 19.67           | 0.093         |
|      |          |         |                 |       | 8                | 4            | 1   | 21.13               | 19.16           | 0.082         |
|      |          |         |                 |       | 8                | 7            | 1   | 20.97               | 19.00           | 0.079         |
|      |          |         |                 | 16QAM | 15               | 0            | 1   | 21.64               | 19.67           | 0.093         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.62               | 19.65           | 0.092         |
|      |          |         |                 |       | 1                | 7            | 1   | 21.07               | 19.10           | 0.081         |
|      |          |         |                 |       | 1                | 14           | 1   | 20.94               | 18.97           | 0.079         |
|      |          |         |                 |       | 8                | 0            | 2   | 19.88               | 17.91           | 0.062         |
|      |          |         |                 |       | 8                | 4            | 2   | 20.08               | 18.11           | 0.065         |
|      |          |         |                 |       | 8                | 7            | 2   | 20.03               | 18.06           | 0.064         |
|      |          |         |                 |       | 15               | 0            | 2   | 20.00               | 18.03           | 0.064         |
|      |          | 20525   | 836.5           | QPSK  | 1                | 0            | 0   | 22.27               | 20.30           | 0.107         |
|      |          |         |                 |       | 1                | 7            | 0   | 21.81               | 19.84           | 0.096         |
|      |          |         |                 |       | 1                | 14           | 0   | 21.78               | 19.81           | 0.096         |
|      |          |         |                 |       | 8                | 0            | 1   | 21.38               | 19.41           | 0.087         |
|      |          |         |                 |       | 8                | 4            | 1   | 20.97               | 19.00           | 0.079         |
|      |          |         |                 |       | 8                | 7            | 1   | 20.92               | 18.95           | 0.079         |
|      |          |         |                 | 16QAM | 15               | 0            | 1   | 21.38               | 19.41           | 0.087         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.36               | 19.39           | 0.087         |
|      |          |         |                 |       | 1                | 7            | 1   | 20.91               | 18.94           | 0.078         |
|      |          |         |                 |       | 1                | 14           | 1   | 20.89               | 18.92           | 0.078         |
|      |          |         |                 |       | 8                | 0            | 2   | 19.83               | 17.86           | 0.061         |
|      |          |         |                 |       | 8                | 4            | 2   | 19.92               | 17.95           | 0.062         |
|      |          |         |                 |       | 8                | 7            | 2   | 19.87               | 17.90           | 0.062         |
|      |          |         |                 |       | 15               | 0            | 2   | 19.84               | 17.87           | 0.061         |
|      |          | 20635   | 847.5           | QPSK  | 1                | 0            | 0   | 22.66               | 20.69           | 0.117         |
|      |          |         |                 |       | 1                | 7            | 0   | 22.05               | 20.08           | 0.102         |
|      |          |         |                 |       | 1                | 14           | 0   | 21.91               | 19.94           | 0.099         |
|      |          |         |                 |       | 8                | 0            | 1   | 21.77               | 19.80           | 0.095         |
|      |          |         |                 |       | 8                | 4            | 1   | 21.21               | 19.24           | 0.084         |
|      |          |         |                 |       | 8                | 7            | 1   | 21.05               | 19.08           | 0.081         |
|      |          |         |                 | 16QAM | 15               | 0            | 1   | 21.77               | 19.80           | 0.095         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.75               | 19.78           | 0.095         |
|      |          |         |                 |       | 1                | 7            | 1   | 21.15               | 19.18           | 0.083         |
|      |          |         |                 |       | 1                | 14           | 1   | 21.02               | 19.05           | 0.080         |
|      |          |         |                 |       | 8                | 0            | 2   | 19.96               | 17.99           | 0.063         |
|      |          |         |                 |       | 8                | 4            | 2   | 20.16               | 18.19           | 0.066         |
|      |          |         |                 |       | 8                | 7            | 2   | 20.11               | 18.14           | 0.065         |
|      |          |         |                 |       | 15               | 0            | 2   | 20.08               | 18.11           | 0.065         |

NOTE:

- (1) Antenna gain: 0.18 dBi.
- (2) EIRP = Average power + Antenna gain.
- (3) ERP = EIRP - 2.15.
- (4)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$
- (5) The maximum antenna gain is applied.

| Band | BW (MHz) | Channel | Frequency (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | ERP power (dBm) | ERP power (W) |
|------|----------|---------|-----------------|-------|------------------|--------------|-----|---------------------|-----------------|---------------|
| 5    | 5        | 20425   | 826.5           | QPSK  | 1                | 0            | 0   | 22.58               | 20.61           | 0.115         |
|      |          |         |                 |       | 1                | 12           | 0   | 22.02               | 20.05           | 0.101         |
|      |          |         |                 |       | 1                | 24           | 0   | 21.88               | 19.91           | 0.098         |
|      |          |         |                 |       | 12               | 0            | 1   | 21.69               | 19.72           | 0.094         |
|      |          |         |                 |       | 12               | 6            | 1   | 21.18               | 19.21           | 0.083         |
|      |          |         |                 |       | 12               | 11           | 1   | 21.02               | 19.05           | 0.080         |
|      |          |         |                 | 16QAM | 25               | 0            | 1   | 21.69               | 19.72           | 0.094         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.67               | 19.70           | 0.093         |
|      |          |         |                 |       | 1                | 12           | 1   | 21.12               | 19.15           | 0.082         |
|      |          |         |                 |       | 1                | 24           | 1   | 20.99               | 19.02           | 0.080         |
|      |          |         |                 |       | 12               | 0            | 2   | 19.93               | 17.96           | 0.063         |
|      |          |         |                 |       | 12               | 6            | 2   | 20.13               | 18.16           | 0.065         |
|      |          |         |                 |       | 12               | 11           | 2   | 20.08               | 18.11           | 0.065         |
|      |          |         |                 |       | 25               | 0            | 2   | 20.05               | 18.08           | 0.064         |
|      |          | 20525   | 836.5           | QPSK  | 1                | 0            | 0   | 22.32               | 20.35           | 0.108         |
|      |          |         |                 |       | 1                | 12           | 0   | 21.86               | 19.89           | 0.097         |
|      |          |         |                 |       | 1                | 24           | 0   | 21.83               | 19.86           | 0.097         |
|      |          |         |                 |       | 12               | 0            | 1   | 21.43               | 19.46           | 0.088         |
|      |          |         |                 |       | 12               | 6            | 1   | 21.02               | 19.05           | 0.080         |
|      |          |         |                 |       | 12               | 11           | 1   | 20.97               | 19.00           | 0.079         |
|      |          |         |                 | 16QAM | 25               | 0            | 1   | 21.43               | 19.46           | 0.088         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.41               | 19.44           | 0.088         |
|      |          |         |                 |       | 1                | 12           | 1   | 20.96               | 18.99           | 0.079         |
|      |          |         |                 |       | 1                | 24           | 1   | 20.94               | 18.97           | 0.079         |
|      |          |         |                 |       | 12               | 0            | 2   | 19.88               | 17.91           | 0.062         |
|      |          |         |                 |       | 12               | 6            | 2   | 19.97               | 18.00           | 0.063         |
|      |          |         |                 |       | 12               | 11           | 2   | 19.92               | 17.95           | 0.062         |
|      |          |         |                 |       | 25               | 0            | 2   | 19.89               | 17.92           | 0.062         |
|      |          | 20625   | 846.5           | QPSK  | 1                | 0            | 0   | 22.71               | 20.74           | 0.119         |
|      |          |         |                 |       | 1                | 12           | 0   | 22.10               | 20.13           | 0.103         |
|      |          |         |                 |       | 1                | 24           | 0   | 21.96               | 19.99           | 0.100         |
|      |          |         |                 |       | 12               | 0            | 1   | 21.82               | 19.85           | 0.097         |
|      |          |         |                 |       | 12               | 6            | 1   | 21.26               | 19.29           | 0.085         |
|      |          |         |                 |       | 12               | 11           | 1   | 21.10               | 19.13           | 0.082         |
|      |          |         |                 | 16QAM | 25               | 0            | 1   | 21.82               | 19.85           | 0.097         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.80               | 19.83           | 0.096         |
|      |          |         |                 |       | 1                | 12           | 1   | 21.20               | 19.23           | 0.084         |
|      |          |         |                 |       | 1                | 24           | 1   | 21.07               | 19.10           | 0.081         |
|      |          |         |                 |       | 12               | 0            | 2   | 20.01               | 18.04           | 0.064         |
|      |          |         |                 |       | 12               | 6            | 2   | 20.21               | 18.24           | 0.067         |
|      |          |         |                 |       | 12               | 11           | 2   | 20.16               | 18.19           | 0.066         |
|      |          |         |                 |       | 25               | 0            | 2   | 20.13               | 18.16           | 0.065         |

NOTE:

- (1) Antenna gain: 0.18 dBi.
- (2) EIRP = Average power + Antenna gain.
- (3) ERP = EIRP - 2.15.
- (4)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (5) The maximum antenna gain is applied.

| Band | BW (MHz) | Channel | Frequency (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | ERP power (dBm) | ERP power (W) |
|------|----------|---------|-----------------|-------|------------------|--------------|-----|---------------------|-----------------|---------------|
| 5    | 10       | 20450   | 829.0           | QPSK  | 1                | 0            | 0   | <b>22.63</b>        | 20.66           | 0.116         |
|      |          |         |                 |       | 1                | 24           | 0   | <b>22.07</b>        | 20.10           | 0.102         |
|      |          |         |                 |       | 1                | 49           | 0   | <b>21.93</b>        | 19.96           | 0.099         |
|      |          |         |                 |       | 25               | 0            | 1   | 21.74               | 19.77           | 0.095         |
|      |          |         |                 |       | 25               | 12           | 1   | 21.23               | 19.26           | 0.084         |
|      |          |         |                 |       | 25               | 24           | 1   | 21.07               | 19.10           | 0.081         |
|      |          |         |                 | 16QAM | 50               | 0            | 1   | 21.74               | 19.77           | 0.095         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.72               | 19.75           | 0.094         |
|      |          |         |                 |       | 1                | 24           | 1   | 21.17               | 19.20           | 0.083         |
|      |          |         |                 |       | 1                | 49           | 1   | 21.04               | 19.07           | 0.081         |
|      |          |         |                 |       | 25               | 0            | 2   | 19.98               | 18.01           | 0.063         |
|      |          |         |                 |       | 25               | 12           | 2   | 20.18               | 18.21           | 0.066         |
|      |          |         |                 |       | 25               | 24           | 2   | 20.13               | 18.16           | 0.065         |
|      |          |         |                 |       | 50               | 0            | 2   | 20.10               | 18.13           | 0.065         |
|      |          | 20525   | 836.5           | QPSK  | 1                | 0            | 0   | <b>22.37</b>        | 20.40           | 0.110         |
|      |          |         |                 |       | 1                | 24           | 0   | <b>21.91</b>        | 19.94           | 0.099         |
|      |          |         |                 |       | 1                | 49           | 0   | <b>21.88</b>        | 19.91           | 0.098         |
|      |          |         |                 |       | 25               | 0            | 1   | 21.48               | 19.51           | 0.089         |
|      |          |         |                 |       | 25               | 12           | 1   | 21.07               | 19.10           | 0.081         |
|      |          |         |                 |       | 25               | 24           | 1   | 21.02               | 19.05           | 0.080         |
|      |          |         |                 | 16QAM | 50               | 0            | 1   | 21.48               | 19.51           | 0.089         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.46               | 19.49           | 0.089         |
|      |          |         |                 |       | 1                | 24           | 1   | 21.01               | 19.04           | 0.080         |
|      |          |         |                 |       | 1                | 49           | 1   | 20.99               | 19.02           | 0.080         |
|      |          |         |                 |       | 25               | 0            | 2   | 19.93               | 17.96           | 0.063         |
|      |          |         |                 |       | 25               | 12           | 2   | 20.02               | 18.05           | 0.064         |
|      |          |         |                 |       | 25               | 24           | 2   | 19.97               | 18.00           | 0.063         |
|      |          |         |                 |       | 50               | 0            | 2   | 19.94               | 17.97           | 0.063         |
|      |          | 20600   | 844.0           | QPSK  | 1                | 0            | 0   | <b>22.76</b>        | 20.79           | 0.120         |
|      |          |         |                 |       | 1                | 24           | 0   | <b>22.15</b>        | 20.18           | 0.104         |
|      |          |         |                 |       | 1                | 49           | 0   | <b>22.01</b>        | 20.04           | 0.101         |
|      |          |         |                 |       | 25               | 0            | 1   | 21.87               | 19.90           | 0.098         |
|      |          |         |                 |       | 25               | 12           | 1   | 21.31               | 19.34           | 0.086         |
|      |          |         |                 |       | 25               | 24           | 1   | 21.15               | 19.18           | 0.083         |
|      |          |         |                 | 16QAM | 50               | 0            | 1   | 21.87               | 19.90           | 0.098         |
|      |          |         |                 |       | 1                | 0            | 1   | 21.85               | 19.88           | 0.097         |
|      |          |         |                 |       | 1                | 24           | 1   | 21.25               | 19.28           | 0.085         |
|      |          |         |                 |       | 1                | 49           | 1   | 21.12               | 19.15           | 0.082         |
|      |          |         |                 |       | 25               | 0            | 2   | 20.06               | 18.09           | 0.064         |
|      |          |         |                 |       | 25               | 12           | 2   | 20.26               | 18.29           | 0.067         |
|      |          |         |                 |       | 25               | 24           | 2   | 20.21               | 18.24           | 0.067         |
|      |          |         |                 |       | 50               | 0            | 2   | 20.18               | 18.21           | 0.066         |

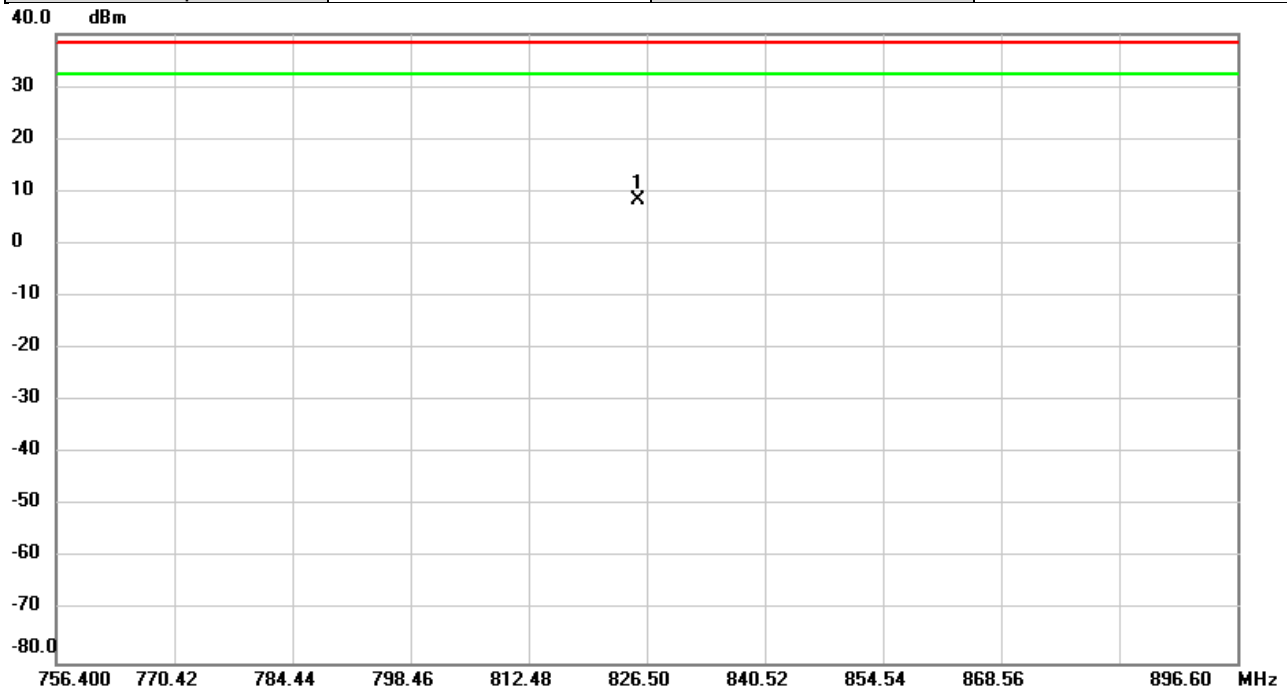
NOTE:

- (1) Antenna gain: 0.18 dBi.
- (2) EIRP = Average power + Antenna gain.
- (3) ERP = EIRP - 2.15.
- (4)  $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$
- (5) The maximum antenna gain is applied.

## ERP (Radiated):

For External antenna:

|              |        |              |           |
|--------------|--------|--------------|-----------|
| Test Mode    | Band V | Test Date    | 2021/8/30 |
| Test Channel | CH4357 | Polarization | Vertical  |
| Temp         | 23°C   | Hum.         | 58%       |

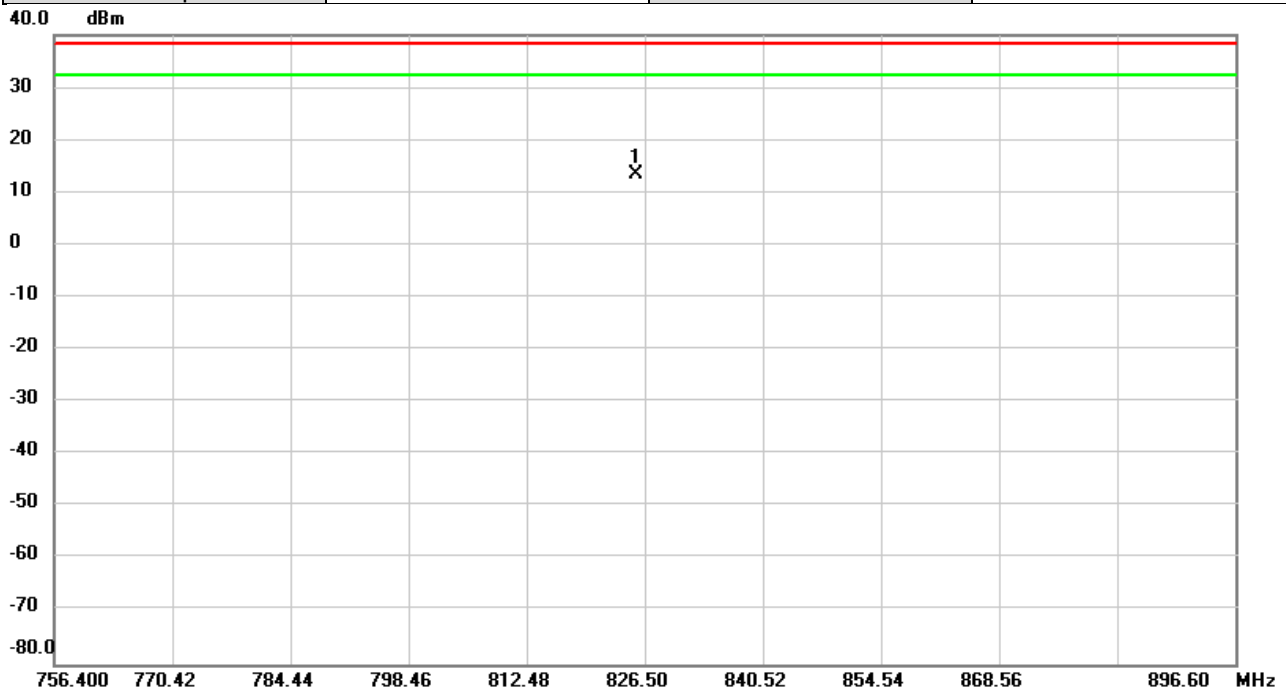


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 825.3831 | -25.65        | 34.02          | 8.37        | 38.45 | -30.08 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |        |              |            |
|--------------|--------|--------------|------------|
| Test Mode    | Band V | Test Date    | 2021/8/30  |
| Test Channel | CH4357 | Polarization | Horizontal |
| Temp         | 23°C   | Hum.         | 58%        |

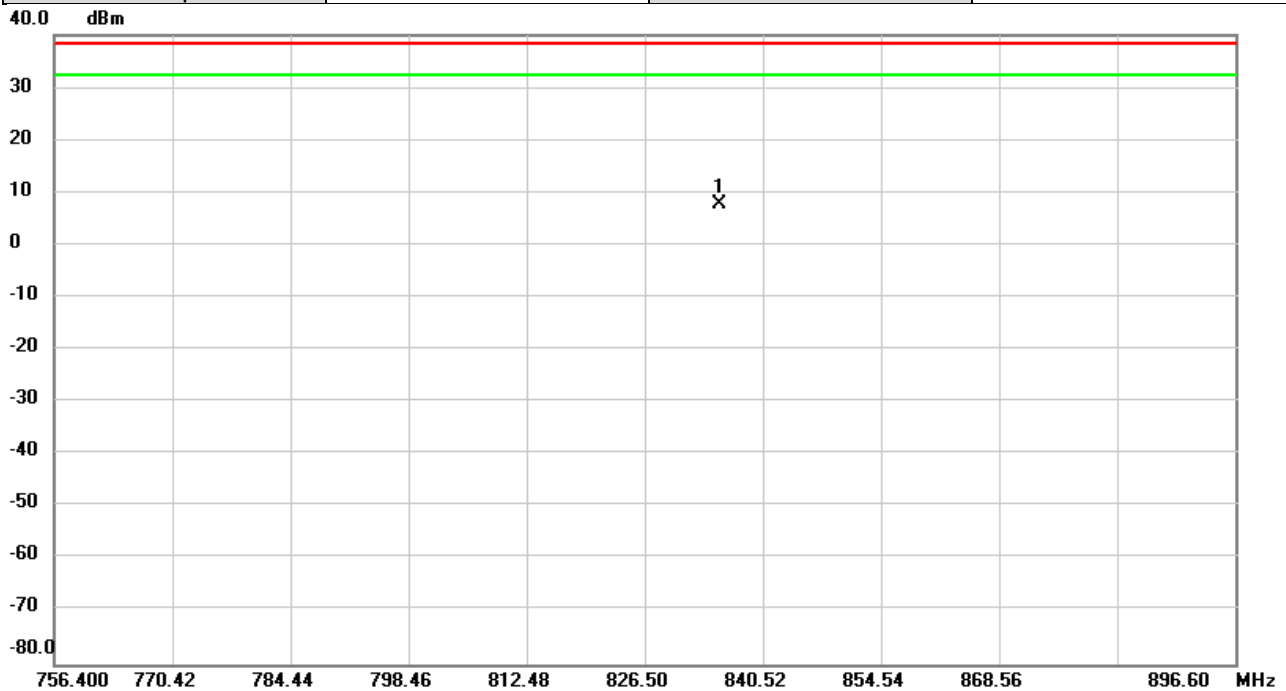


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 825.5513 | -20.02        | 33.53          | 13.51       | 38.45 | -24.94 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |        |              |           |
|--------------|--------|--------------|-----------|
| Test Mode    | Band V | Test Date    | 2021/8/30 |
| Test Channel | CH4407 | Polarization | Vertical  |
| Temp         | 23°C   | Hum.         | 58%       |

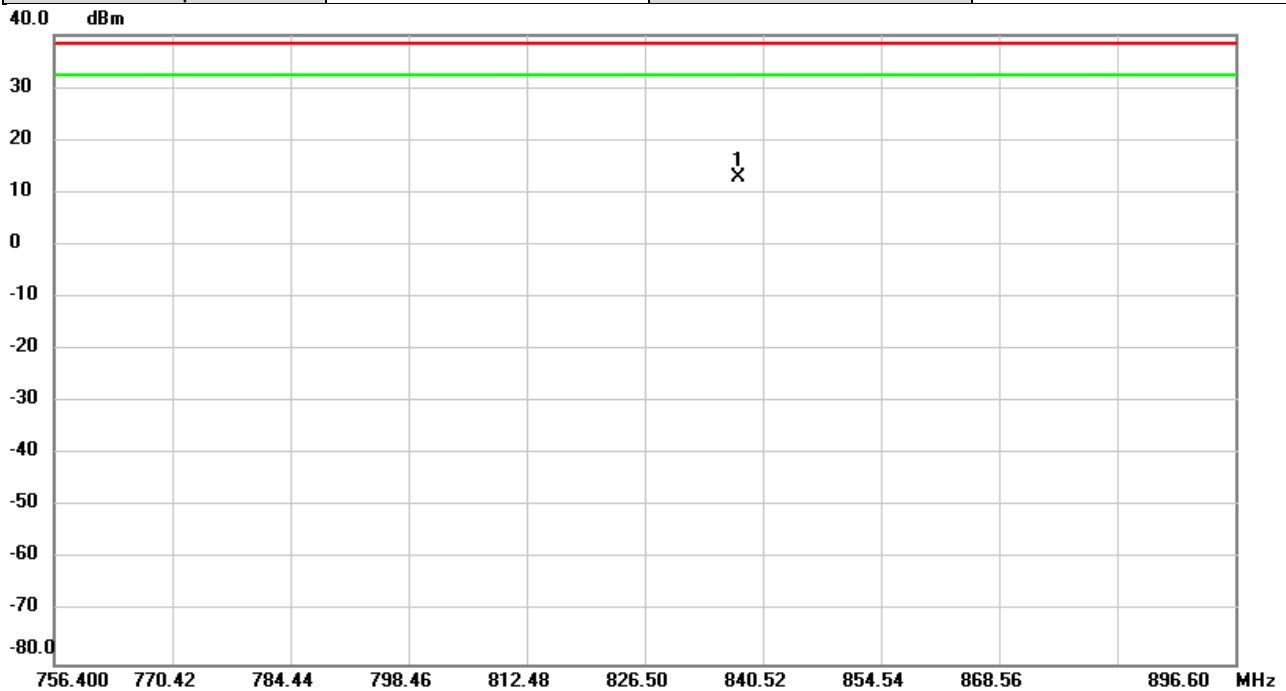


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 835.4261 | -26.01        | 33.89          | 7.88        | 38.45 | -30.57 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |        |              |            |
|--------------|--------|--------------|------------|
| Test Mode    | Band V | Test Date    | 2021/8/30  |
| Test Channel | CH4407 | Polarization | Horizontal |
| Temp         | 23°C   | Hum.         | 58%        |

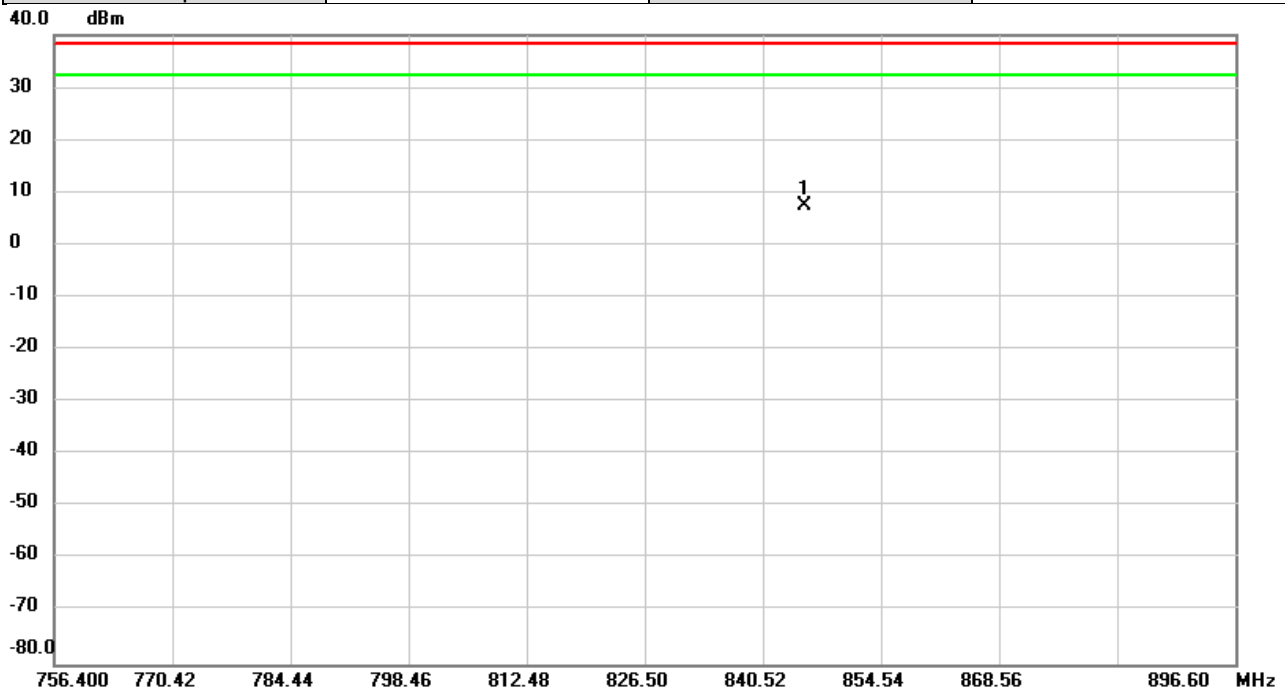


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 837.6833 | -20.48        | 33.22          | 12.74       | 38.45 | -25.71 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |        |              |           |
|--------------|--------|--------------|-----------|
| Test Mode    | Band V | Test Date    | 2021/8/30 |
| Test Channel | CH4458 | Polarization | Vertical  |
| Temp         | 23°C   | Hum.         | 58%       |

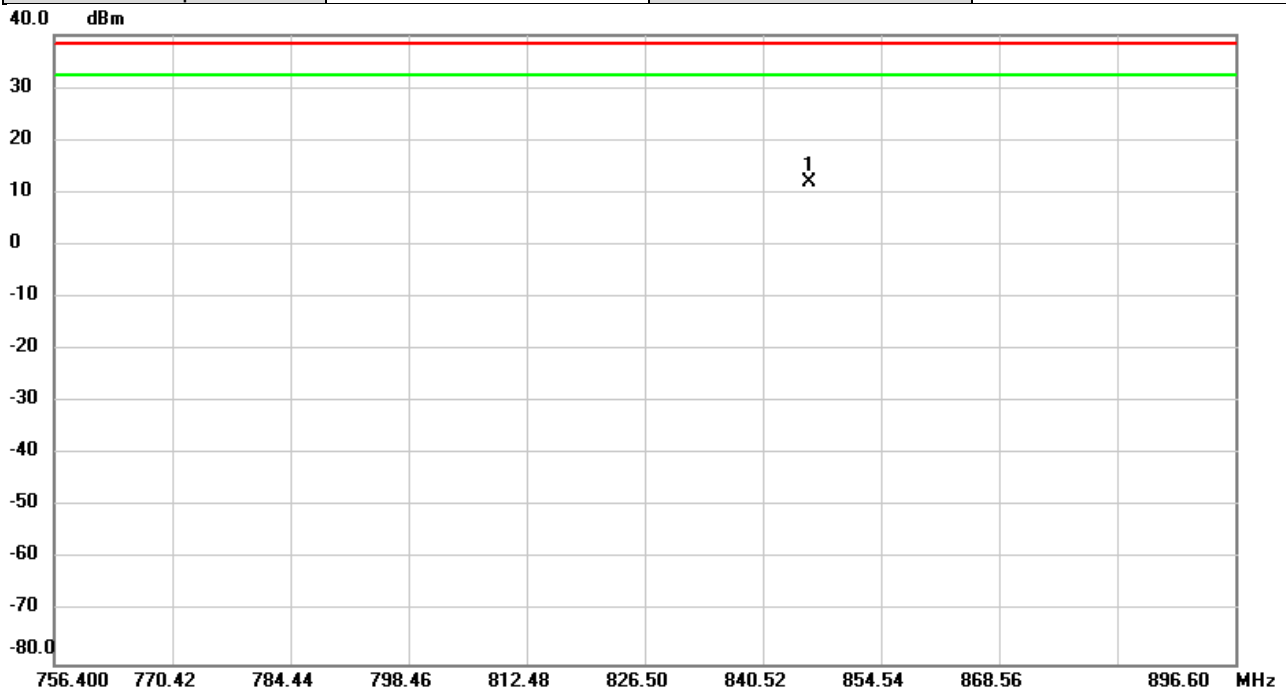


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 845.5672 | -26.31        | 33.77          | 7.46        | 38.45 | -30.99 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |        |              |            |
|--------------|--------|--------------|------------|
| Test Mode    | Band V | Test Date    | 2021/8/30  |
| Test Channel | CH4458 | Polarization | Horizontal |
| Temp         | 23°C   | Hum.         | 58%        |

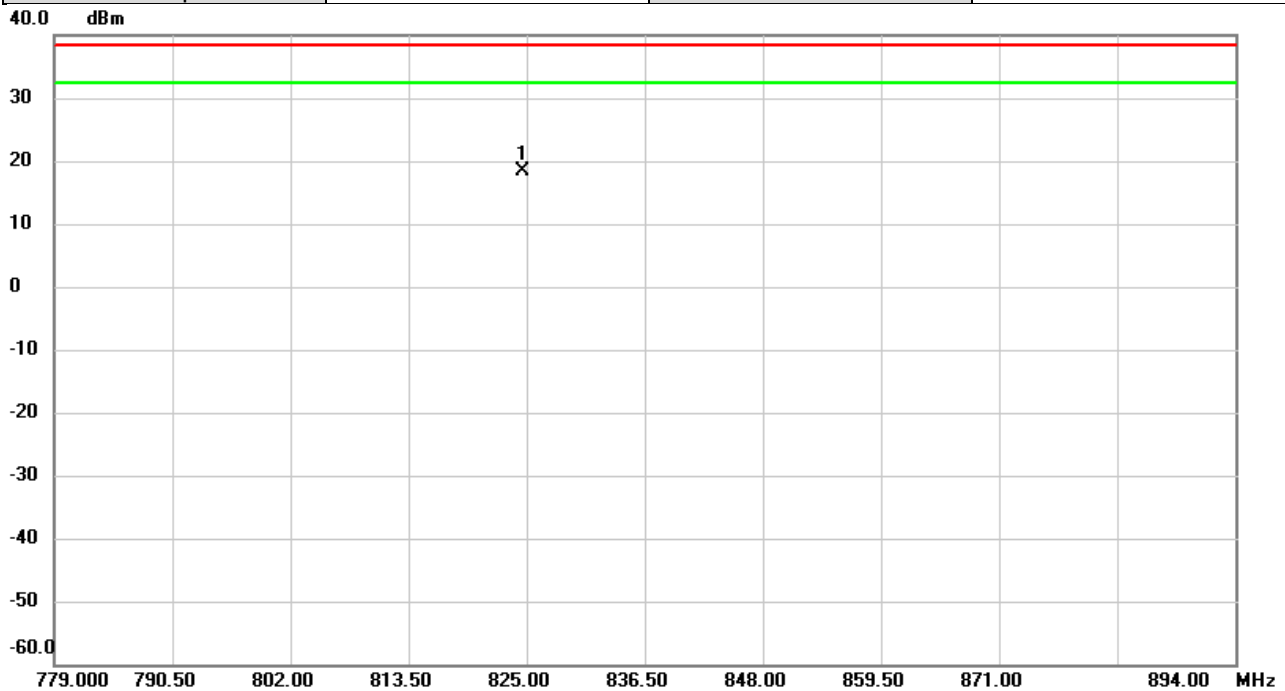


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 845.9411 | -20.91        | 33.00          | 12.09       | 38.45 | -26.36 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30 |
| Test Channel | CH20450    | Polarization | Vertical  |
| Temp         | 23°C       | Hum.         | 58%       |

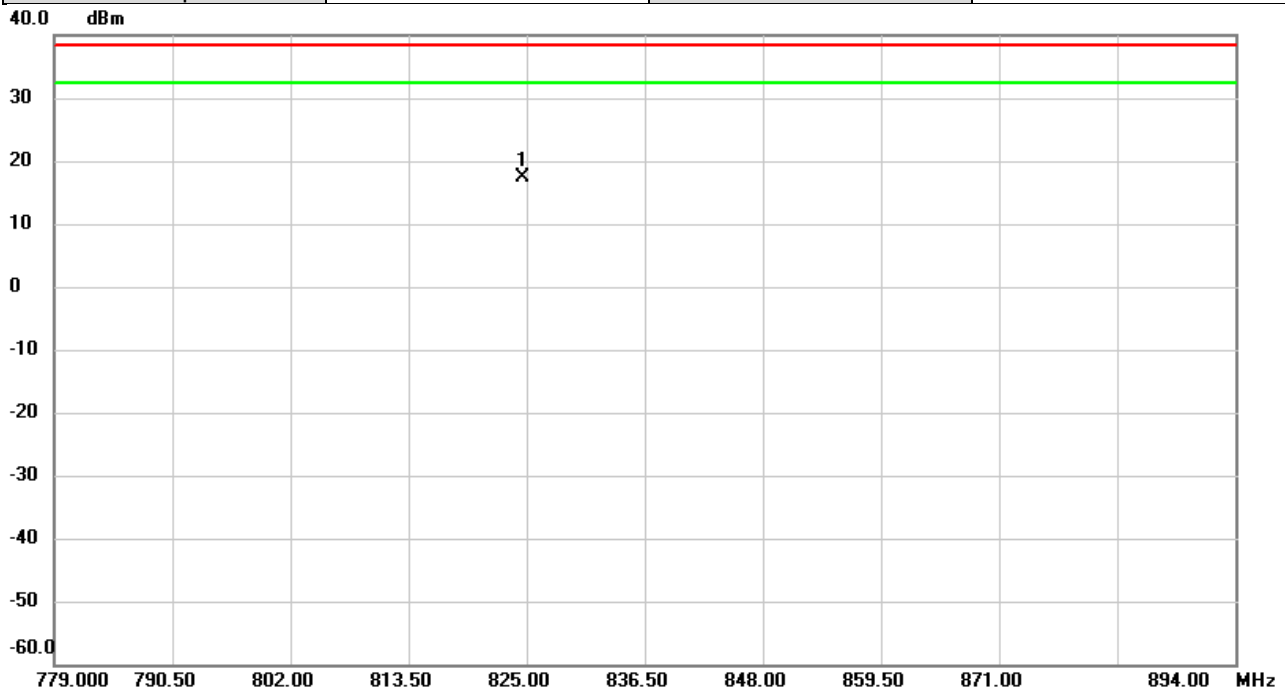


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 824.6396 | -15.75        | 34.02          | 18.27       | 38.45 | -20.18 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30  |
| Test Channel | CH20450    | Polarization | Horizontal |
| Temp         | 23°C       | Hum.         | 58%        |

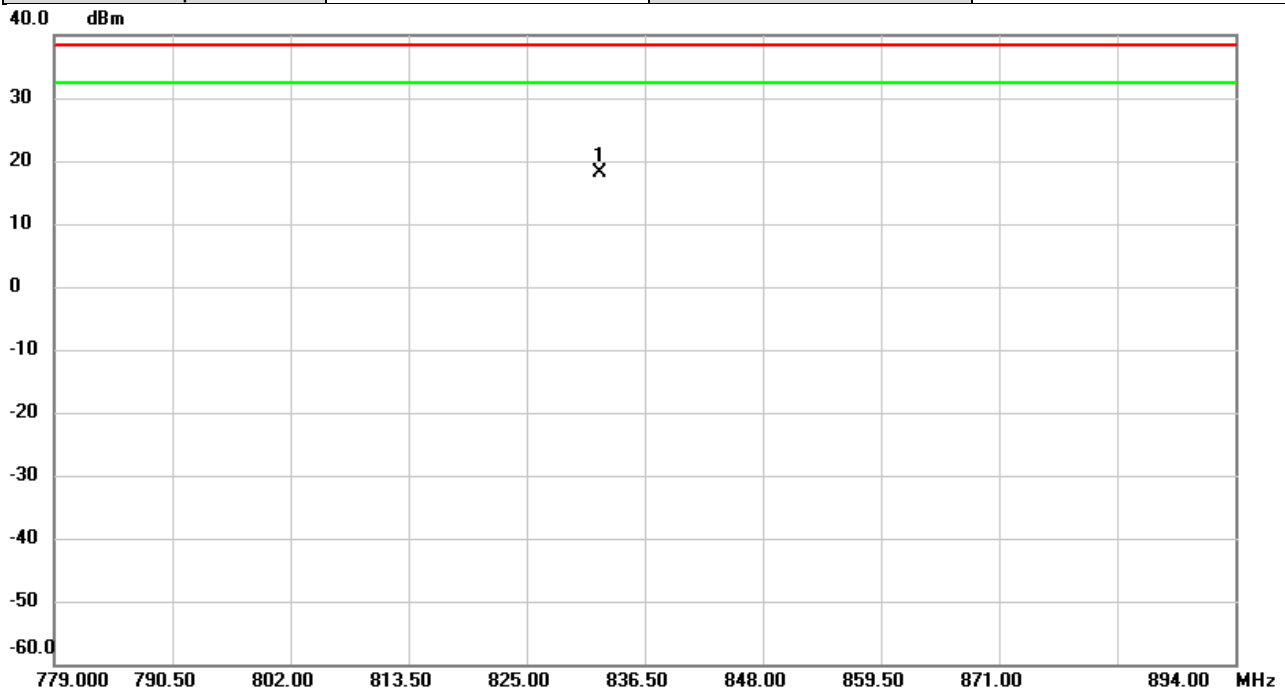


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 824.5898 | -16.07        | 33.55          | 17.48       | 38.45 | -20.97 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30 |
| Test Channel | CH20525    | Polarization | Vertical  |
| Temp         | 23°C       | Hum.         | 58%       |

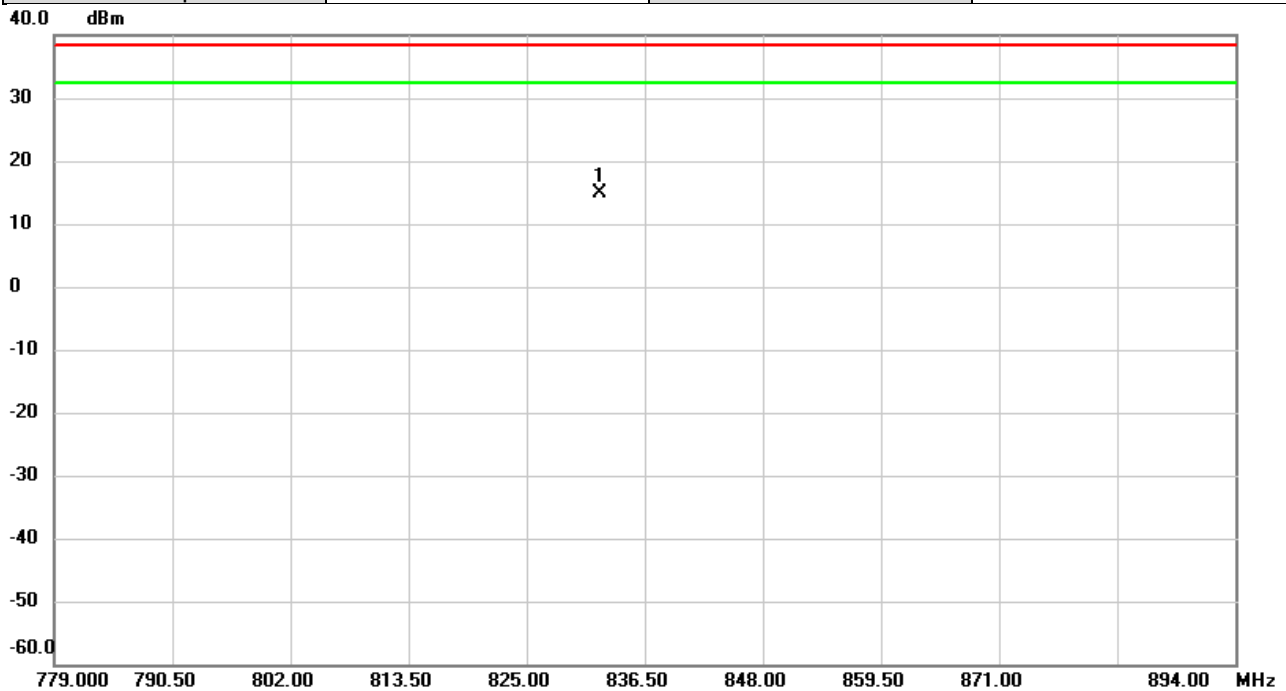


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 832.0878 | -15.84        | 33.93          | 18.09       | 38.45 | -20.36 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30  |
| Test Channel | CH20525    | Polarization | Horizontal |
| Temp         | 23°C       | Hum.         | 58%        |

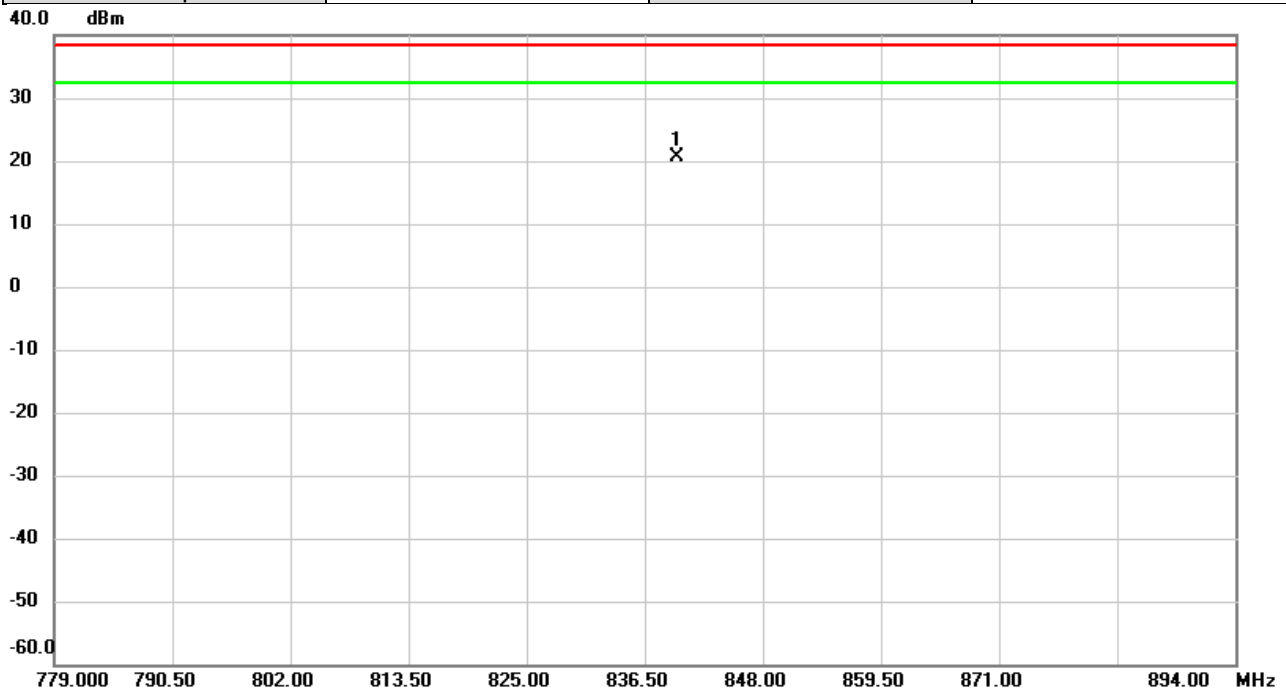


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 832.0993 | -18.59        | 33.36          | 14.77       | 38.45 | -23.68 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30 |
| Test Channel | CH20600    | Polarization | Vertical  |
| Temp         | 23°C       | Hum.         | 58%       |

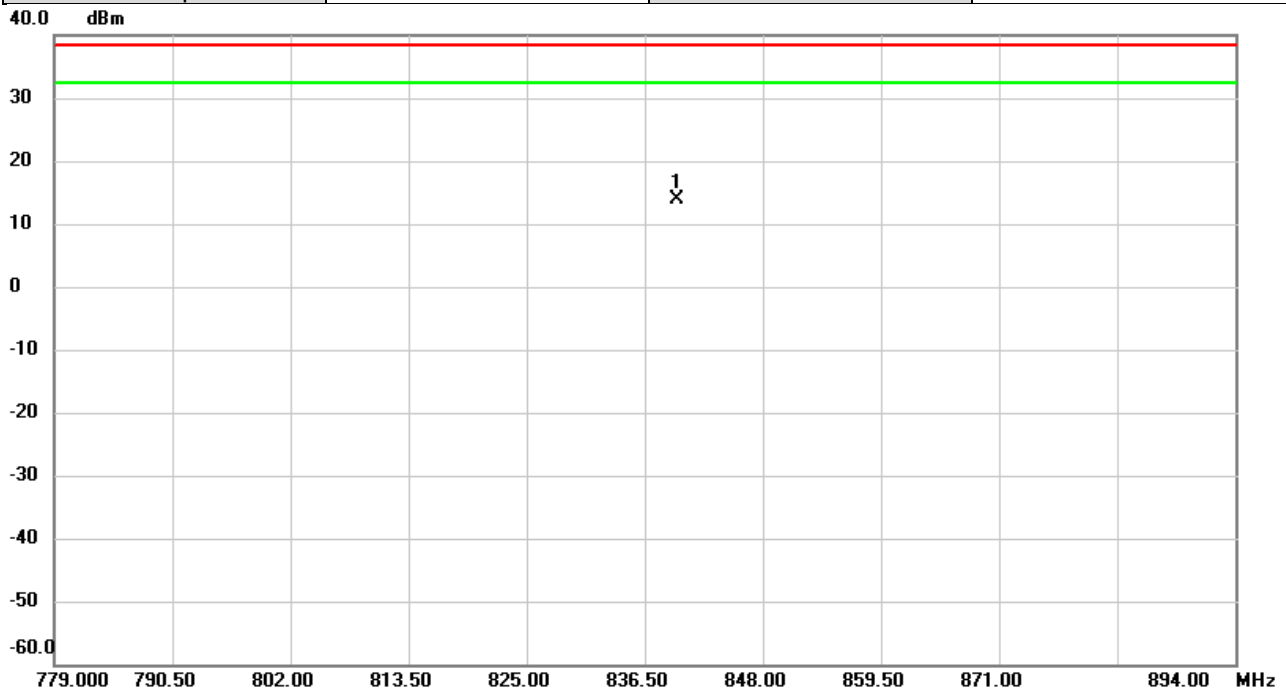


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 839.6088 | -13.19        | 33.84          | 20.65       | 38.45 | -17.80 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30  |
| Test Channel | CH20600    | Polarization | Horizontal |
| Temp         | 23°C       | Hum.         | 58%        |



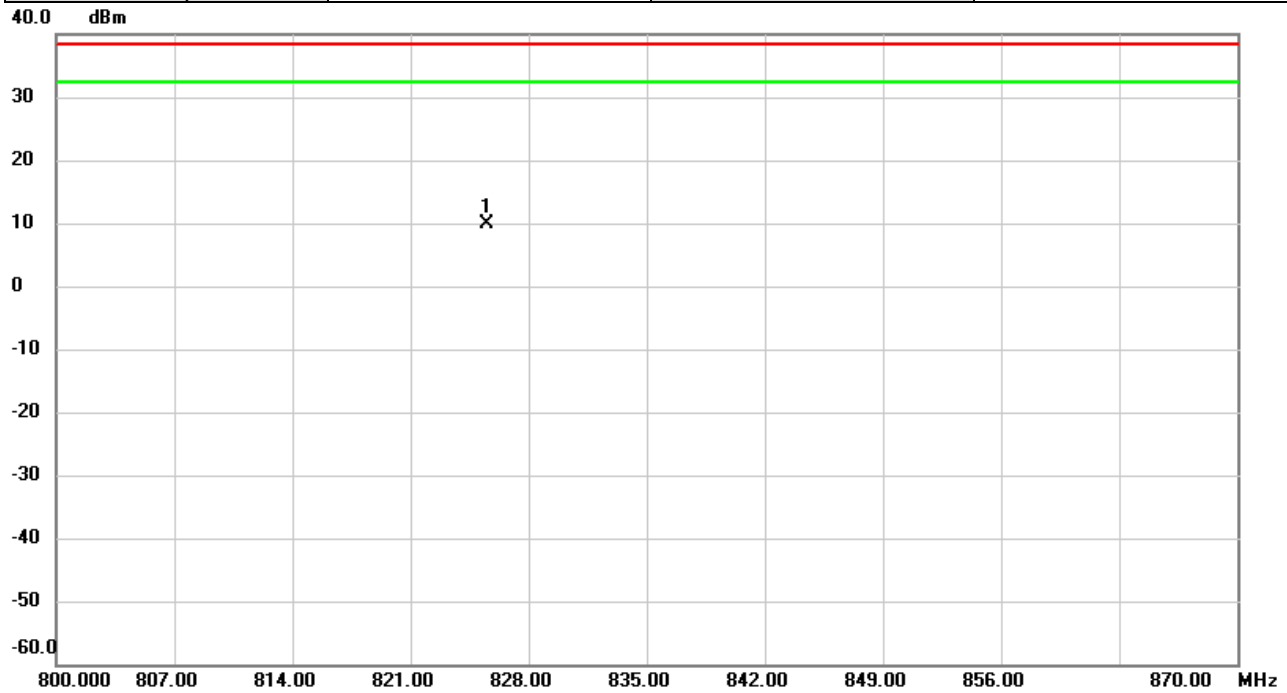
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 839.6050 | -19.20        | 33.17          | 13.97       | 38.45 | -24.48 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

For Built-in antenna:

|              |              |              |          |
|--------------|--------------|--------------|----------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8 |
| Test Channel | CH 4357      | Polarization | Vertical |
| Temp         | 24°C         | Hum.         | 58%      |

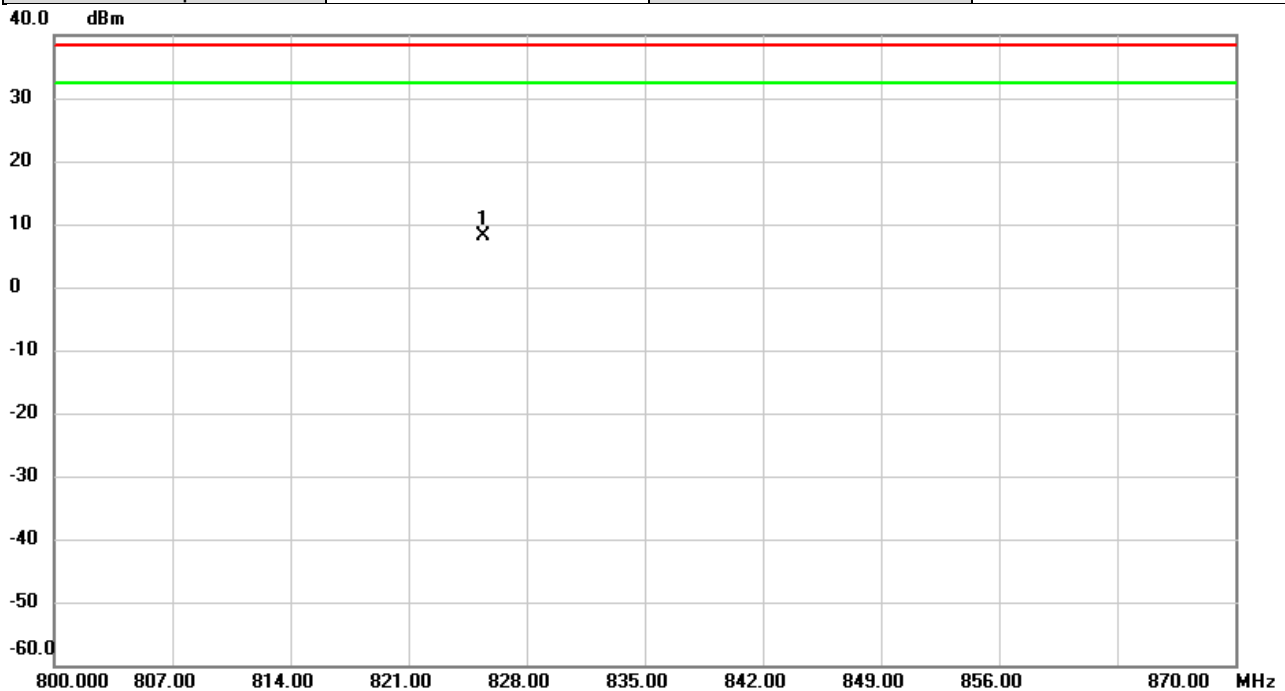


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 825.5383 | -24.47        | 34.26          | 9.79        | 38.45 | -28.66 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8   |
| Test Channel | CH 4357      | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

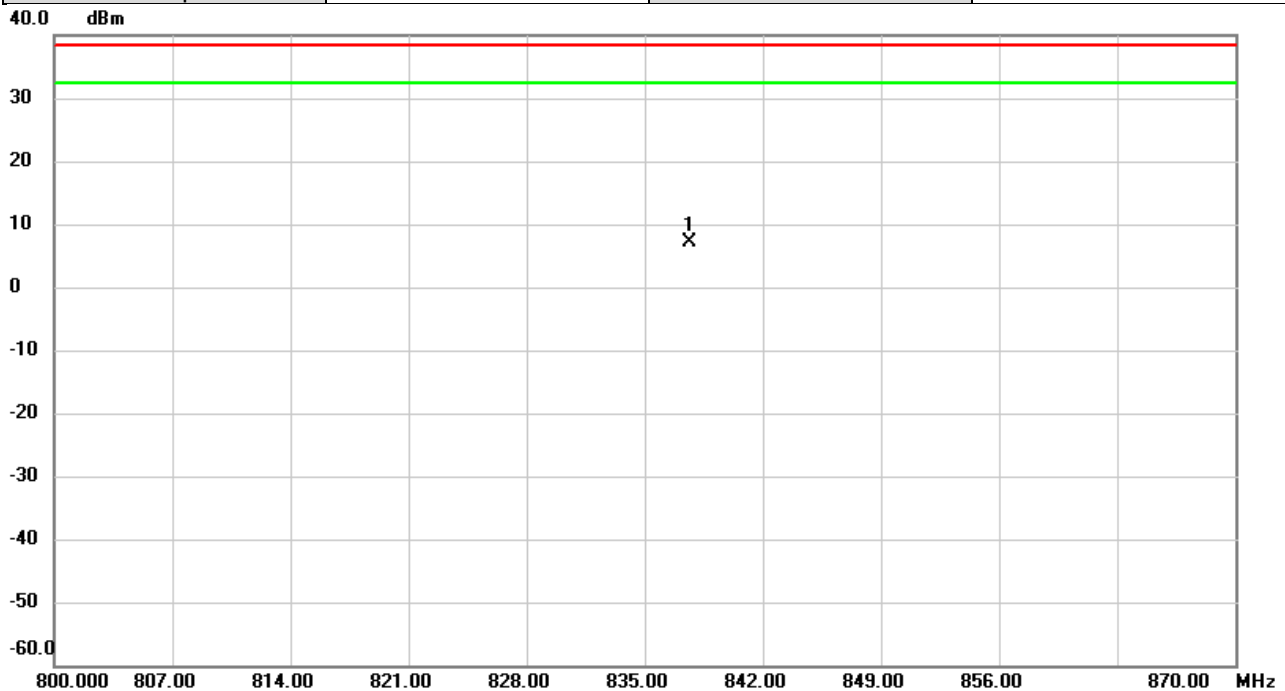


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 825.4777 | -25.40        | 33.55          | 8.15        | 38.45 | -30.30 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |          |
|--------------|--------------|--------------|----------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8 |
| Test Channel | CH 4407      | Polarization | Vertical |
| Temp         | 24°C         | Hum.         | 58%      |

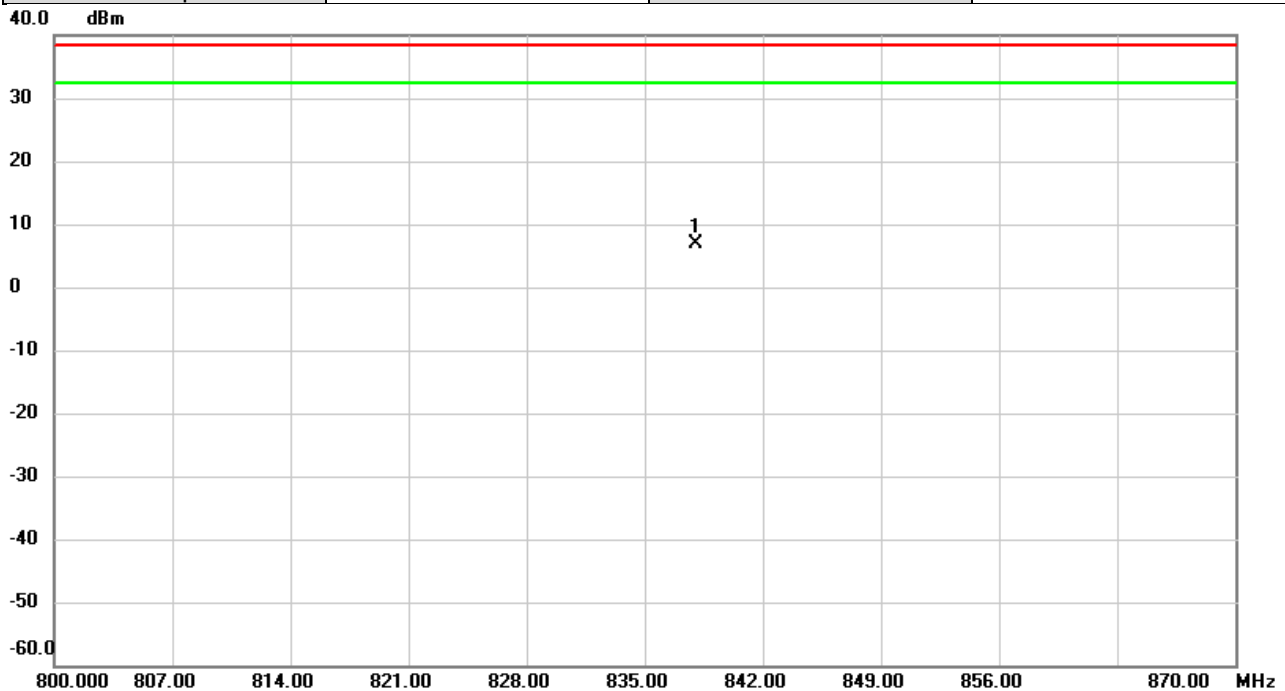


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 837.6297 | -27.22        | 34.23          | 7.01        | 38.45 | -31.44 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8   |
| Test Channel | CH 4407      | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

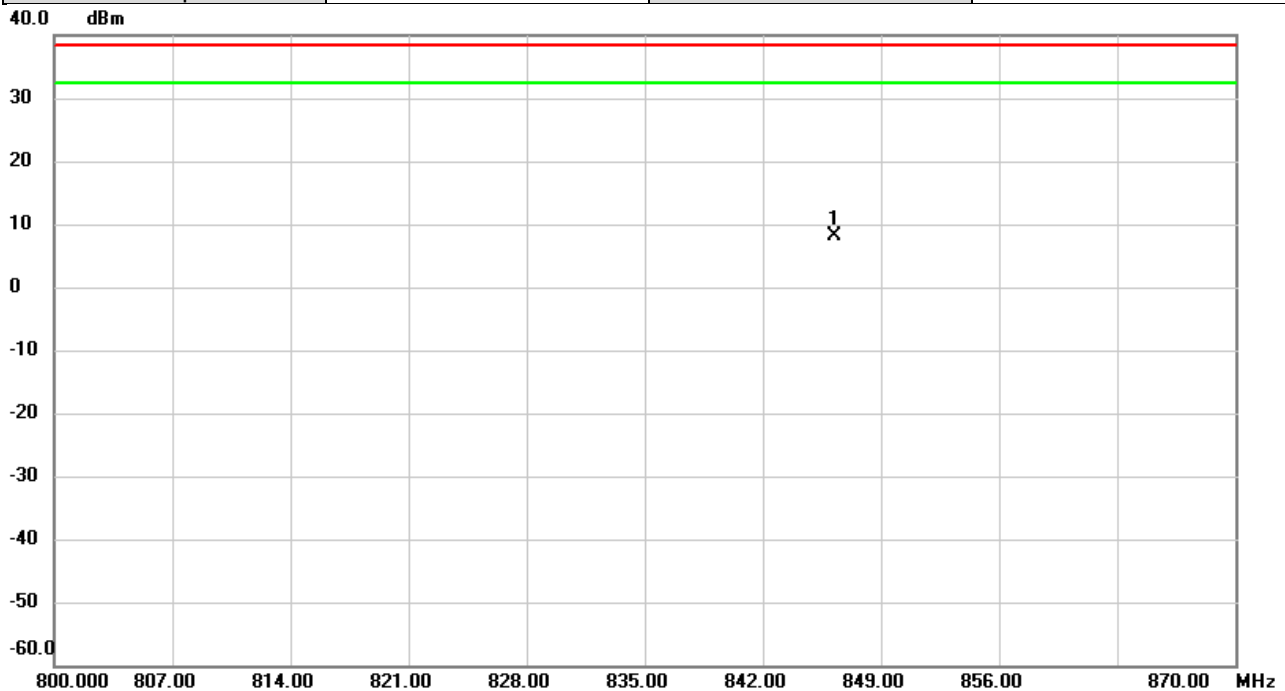


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 838.0310 | -26.58        | 33.52          | 6.94        | 38.45 | -31.51 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |          |
|--------------|--------------|--------------|----------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8 |
| Test Channel | CH 4458      | Polarization | Vertical |
| Temp         | 24°C         | Hum.         | 58%      |

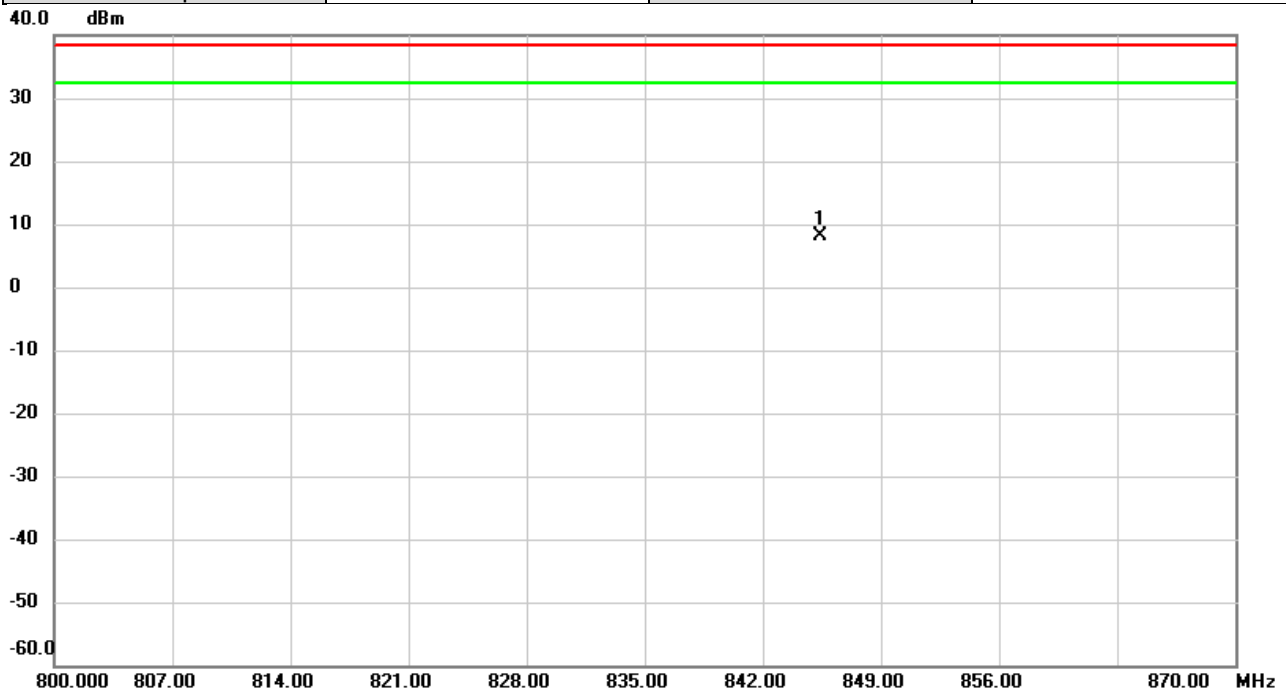


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 846.2863 | -26.01        | 34.20          | 8.19        | 38.45 | -30.26 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8   |
| Test Channel | CH 4458      | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

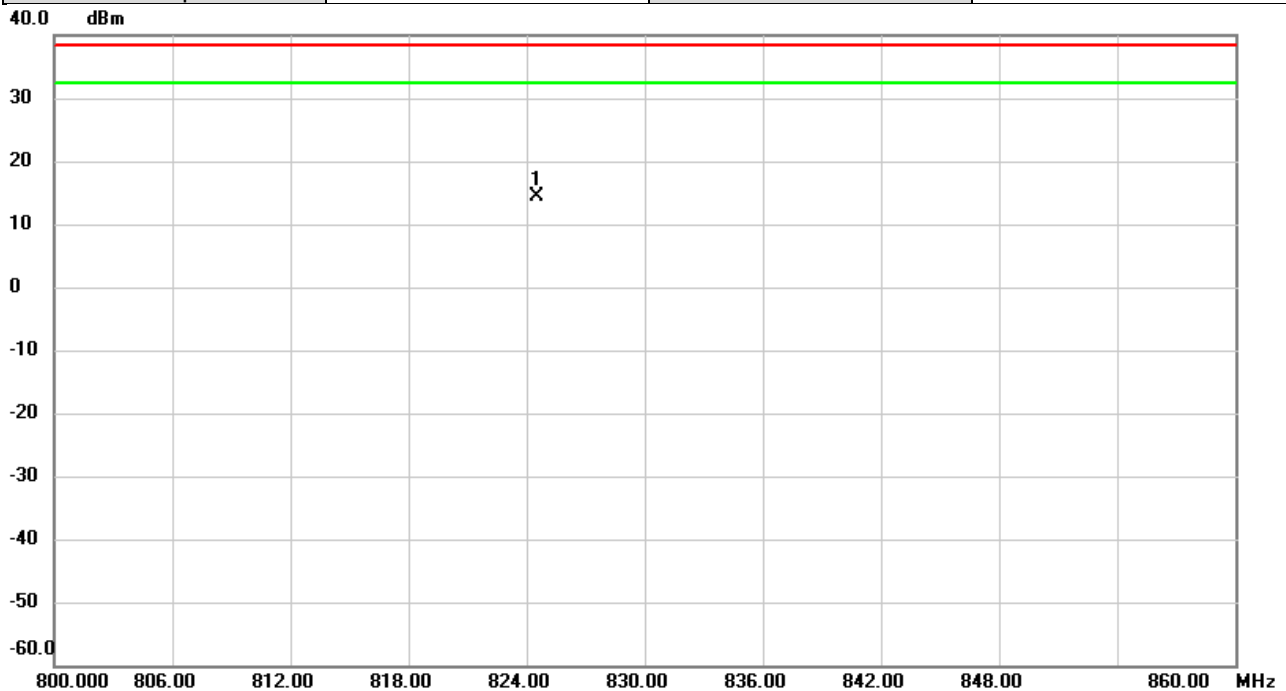


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 845.4160 | -25.35        | 33.50          | 8.15        | 38.45 | -30.30 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |          |
|--------------|------------|--------------|----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8 |
| Test Channel | CH 20450   | Polarization | Vertical |
| Temp         | 24°C       | Hum.         | 58%      |

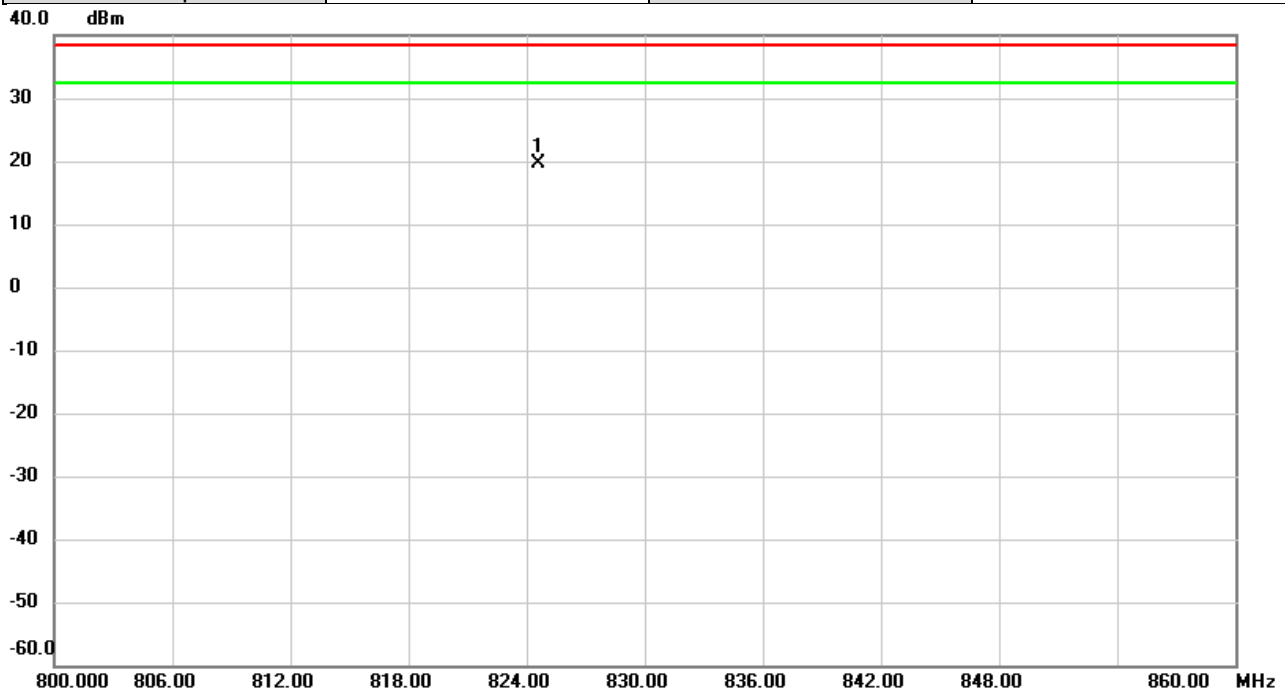


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 824.5480 | -19.80        | 34.27          | 14.47       | 38.45 | -23.98 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8   |
| Test Channel | CH 20450   | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |

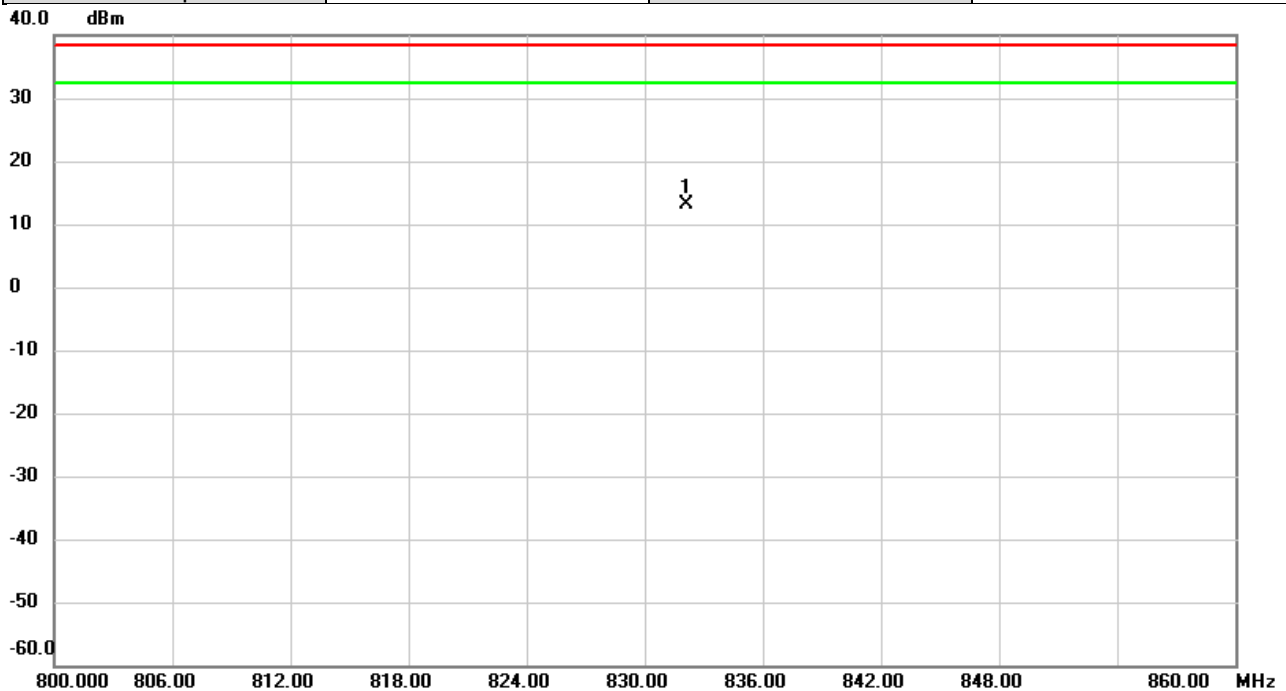


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 824.5940 | -13.94        | 33.55          | 19.61       | 38.45 | -18.84 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |          |
|--------------|------------|--------------|----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8 |
| Test Channel | CH 20525   | Polarization | Vertical |
| Temp         | 24°C       | Hum.         | 58%      |

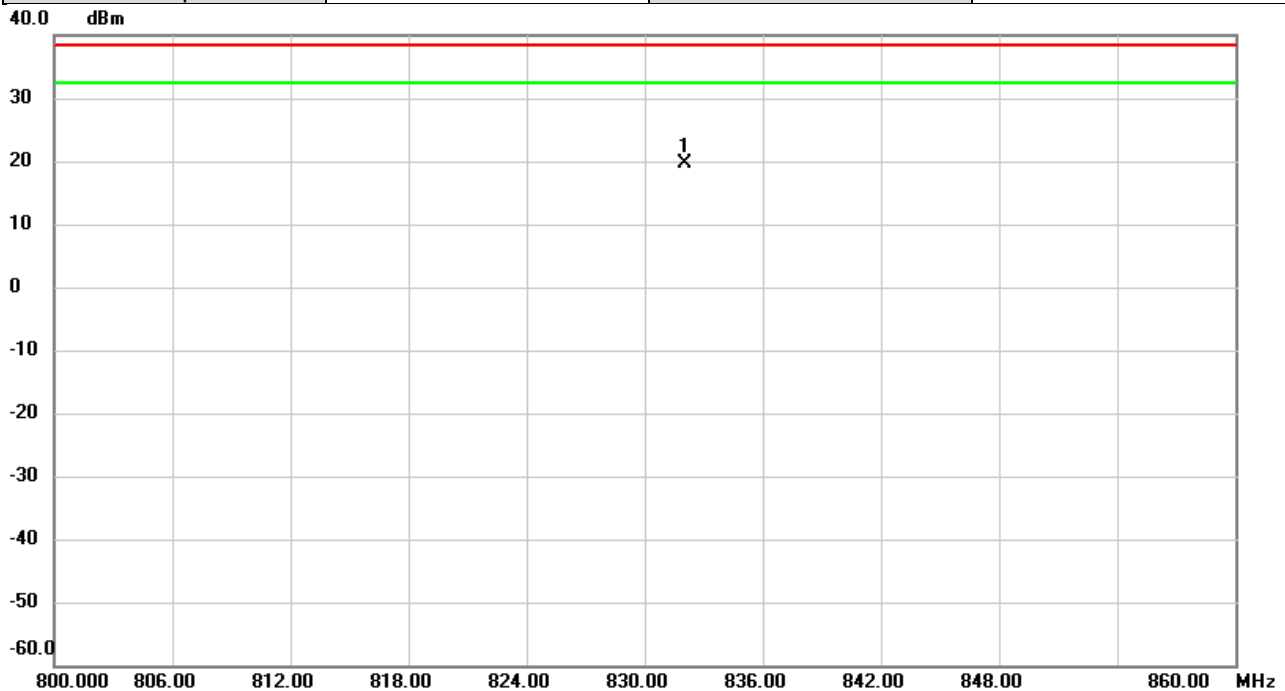


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 832.1360 | -21.05        | 34.24          | 13.19       | 38.45 | -25.26 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8   |
| Test Channel | CH 20525   | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |

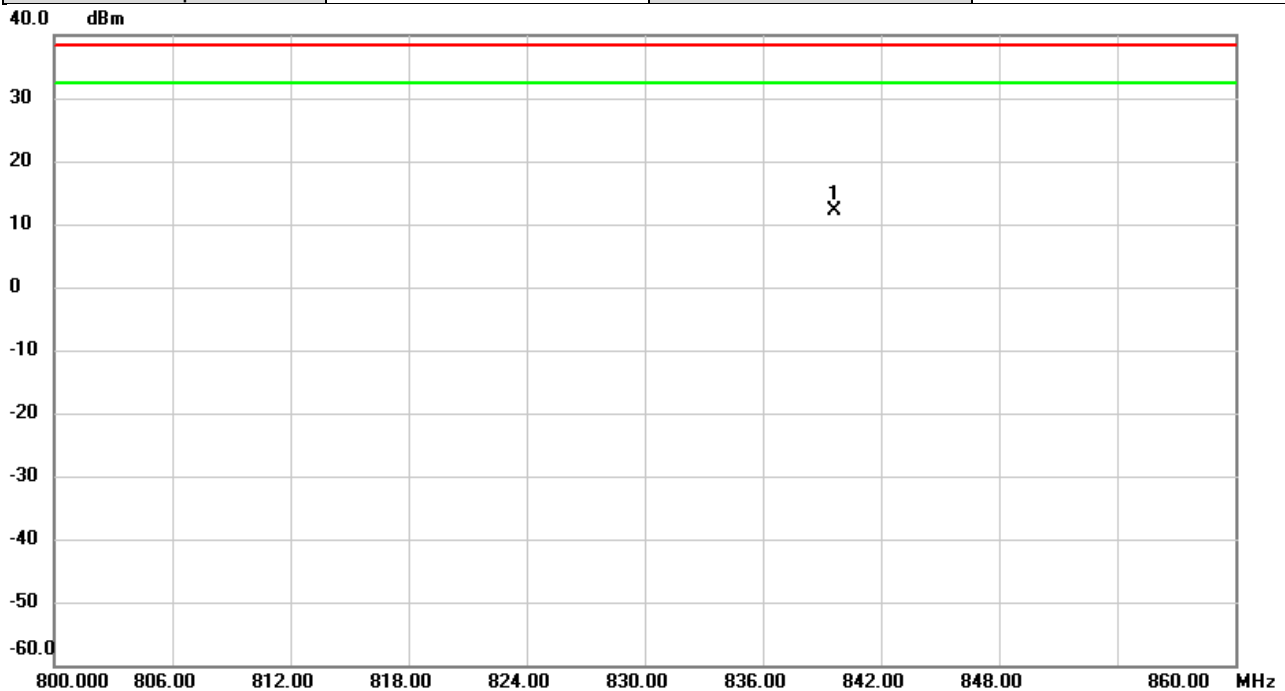


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 832.0480 | -13.91        | 33.53          | 19.62       | 38.45 | -18.83 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |          |
|--------------|------------|--------------|----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8 |
| Test Channel | CH 20600   | Polarization | Vertical |
| Temp         | 24°C       | Hum.         | 58%      |

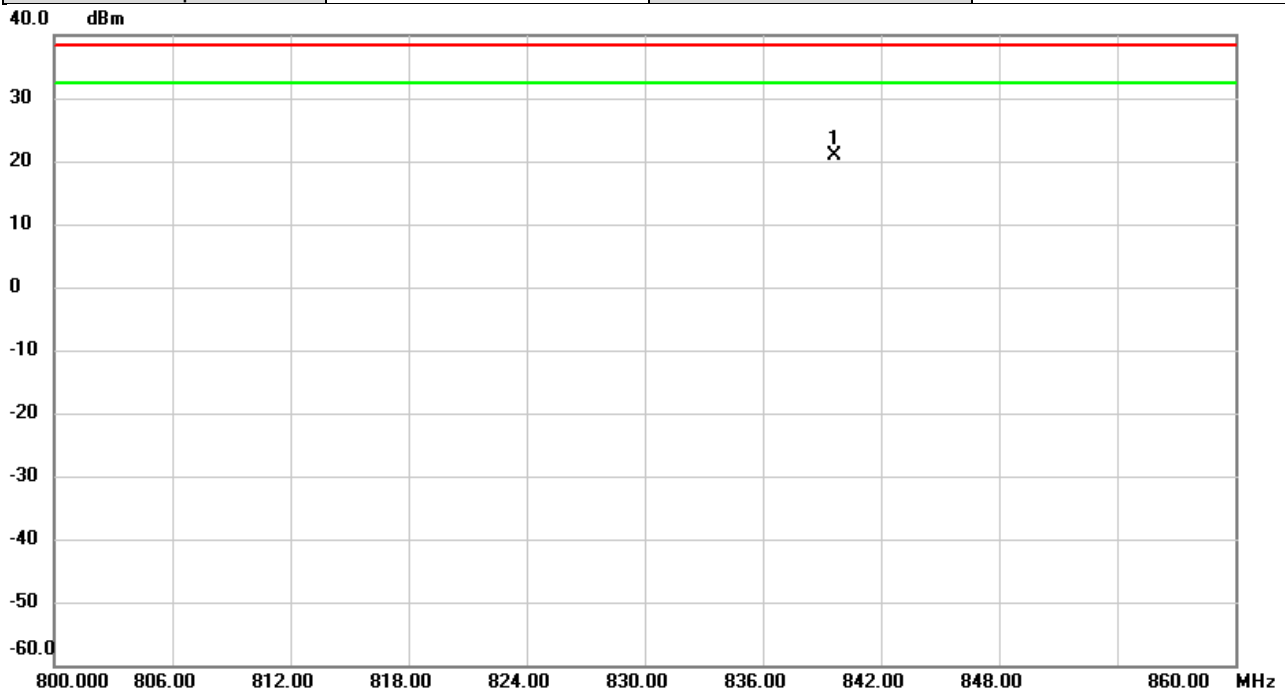


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 839.6140 | -22.01        | 34.22          | 12.21       | 38.45 | -26.24 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8   |
| Test Channel | CH 20600   | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |



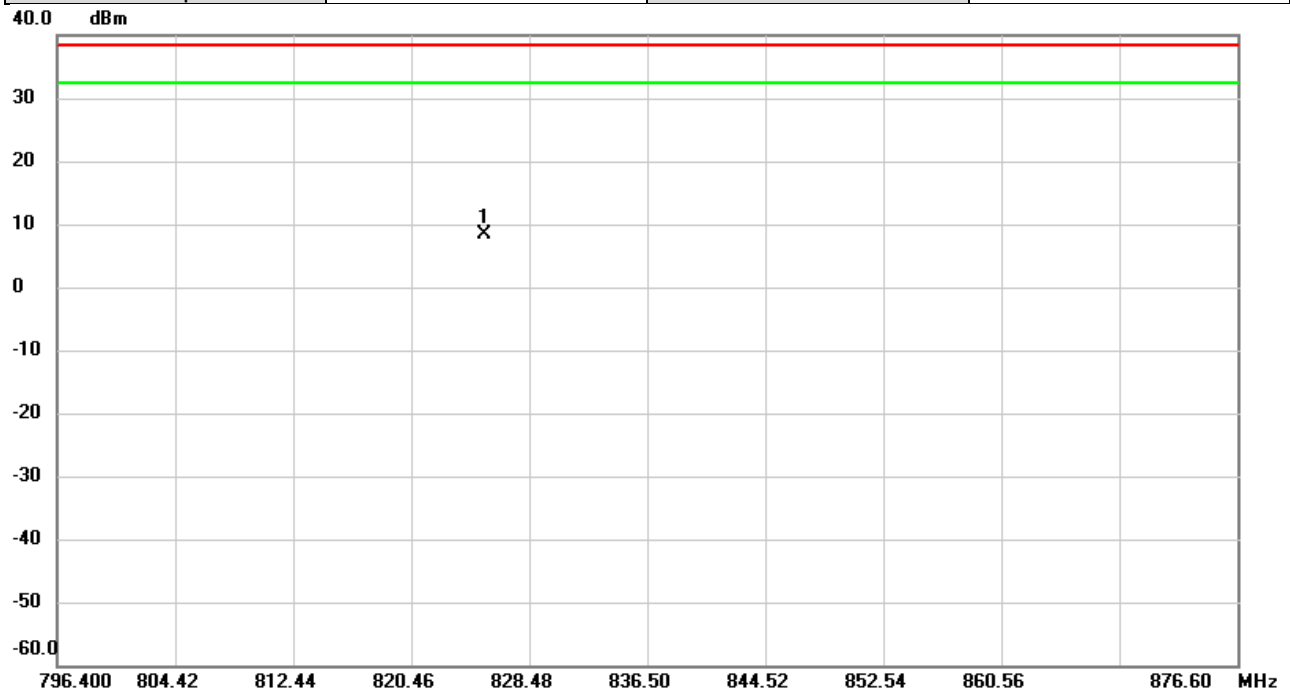
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 839.6180 | -12.54        | 33.51          | 20.97       | 38.45 | -17.48 | peak     |         |

#### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## Spot check test:

|              |              |              |           |
|--------------|--------------|--------------|-----------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24 |
| Test Channel | CH4132       | Polarization | Vertical  |
| Temp         | 24°C         | Hum.         | 58%       |

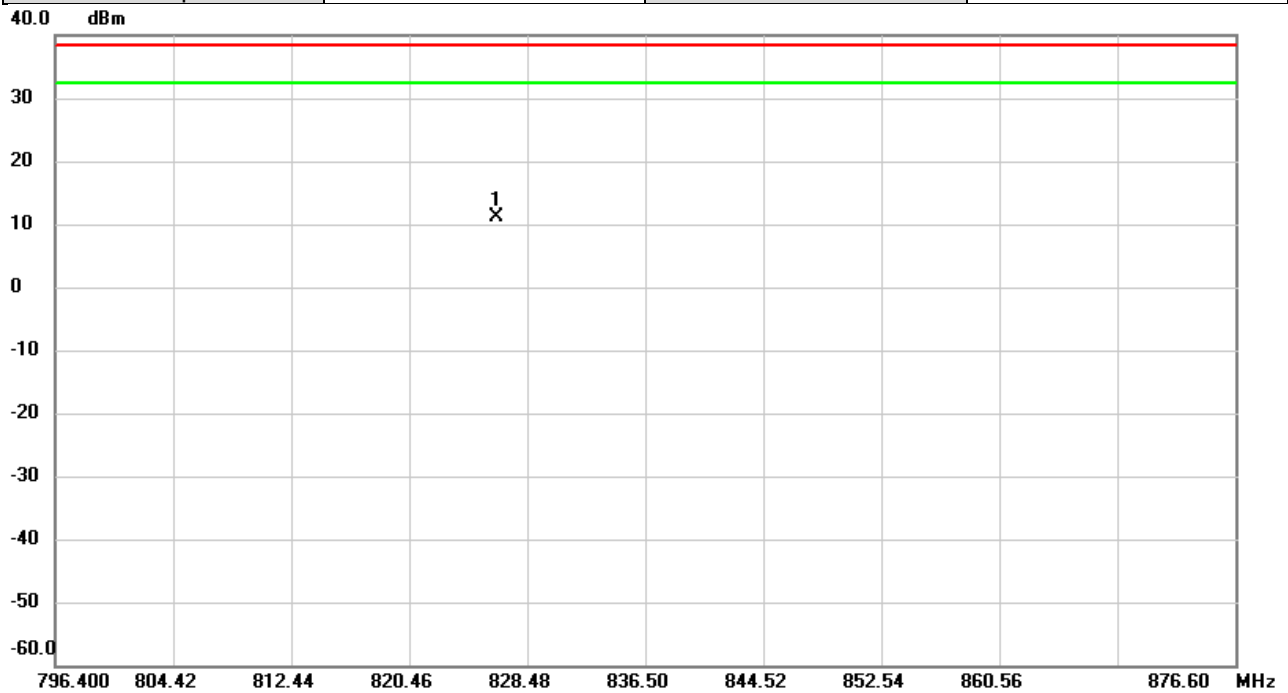


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 825.4056 | -1.42         | 9.81           | 8.39        | 38.45 | -30.06 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24  |
| Test Channel | CH4132       | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

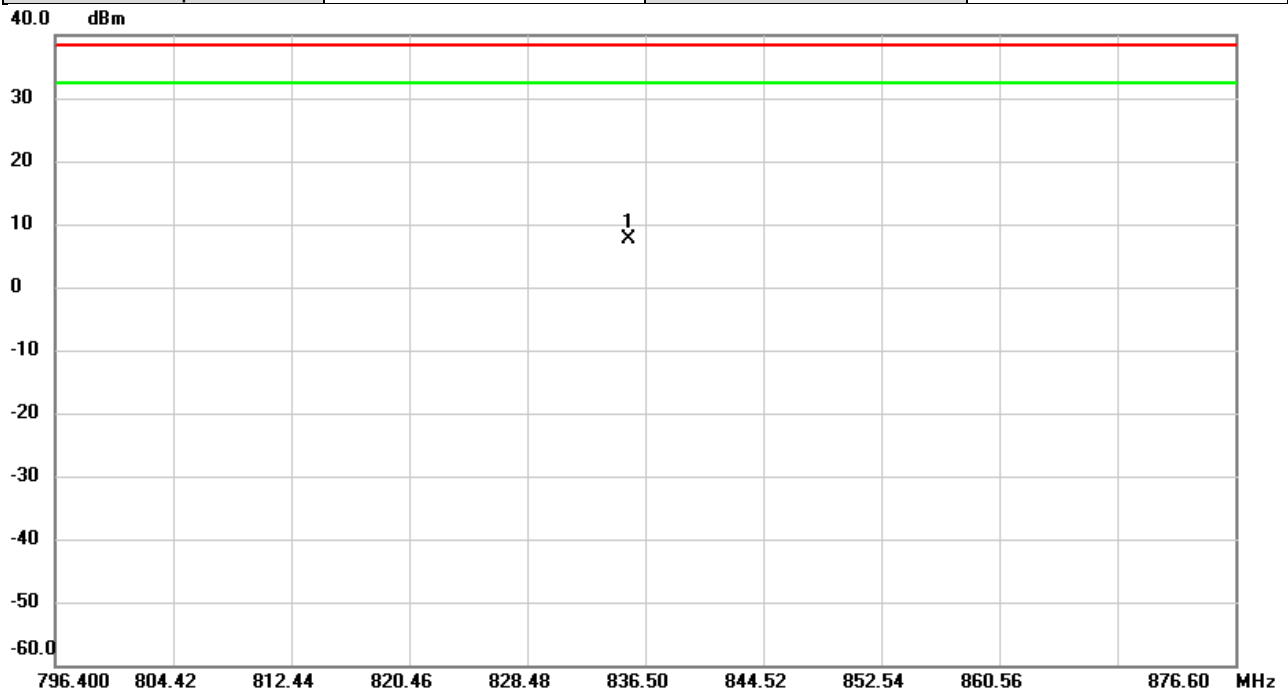


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 826.3562 | 1.10          | 9.92           | 11.02       | 38.45 | -27.43 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |           |
|--------------|--------------|--------------|-----------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24 |
| Test Channel | CH4183       | Polarization | Vertical  |
| Temp         | 24°C         | Hum.         | 58%       |

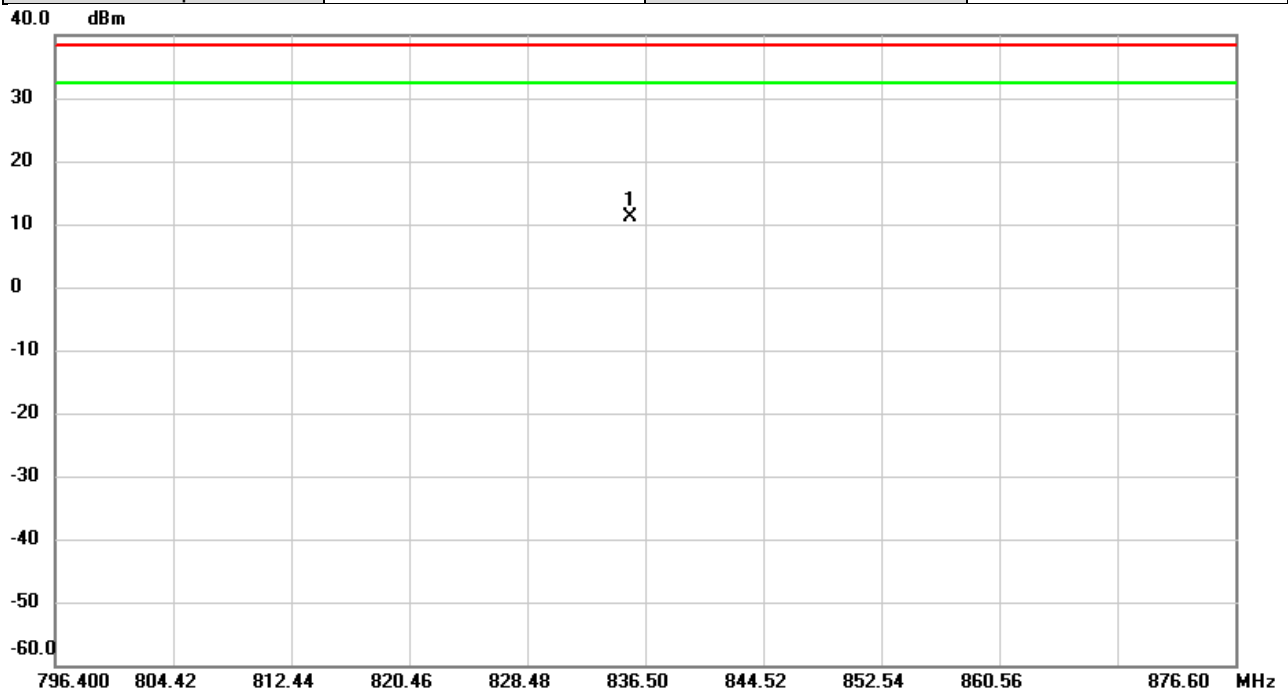


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 835.3986 | -2.36         | 9.87           | 7.51        | 38.45 | -30.94 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24  |
| Test Channel | CH4183       | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

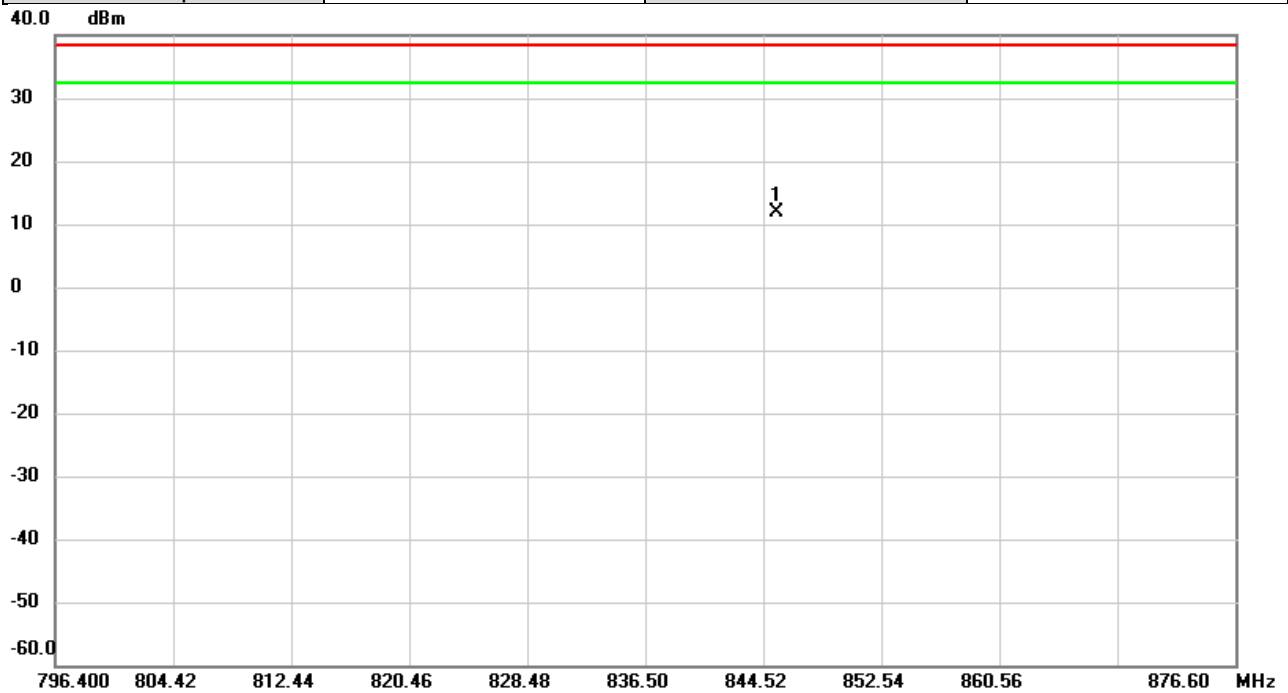


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 835.4601 | 1.32          | 9.69           | 11.01       | 38.45 | -27.44 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |           |
|--------------|--------------|--------------|-----------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24 |
| Test Channel | CH4233       | Polarization | Vertical  |
| Temp         | 24°C         | Hum.         | 58%       |

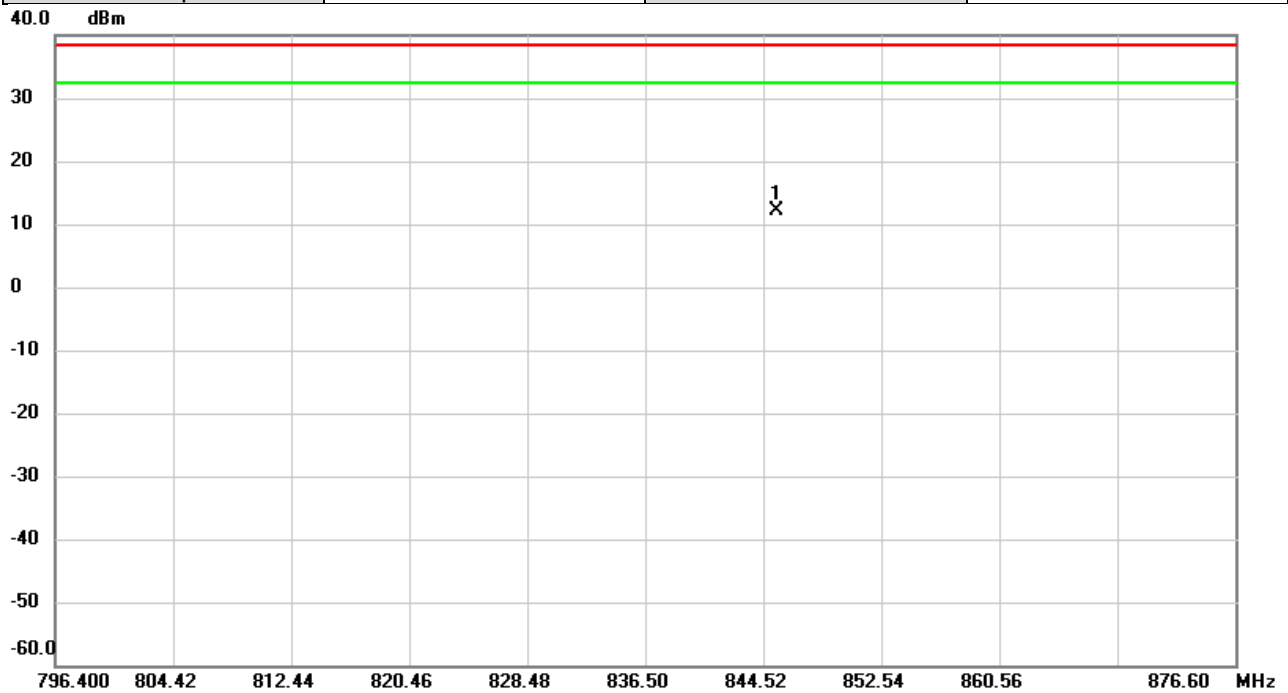


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 845.4530 | 2.04          | 9.94           | 11.98       | 38.45 | -26.47 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24  |
| Test Channel | CH4233       | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

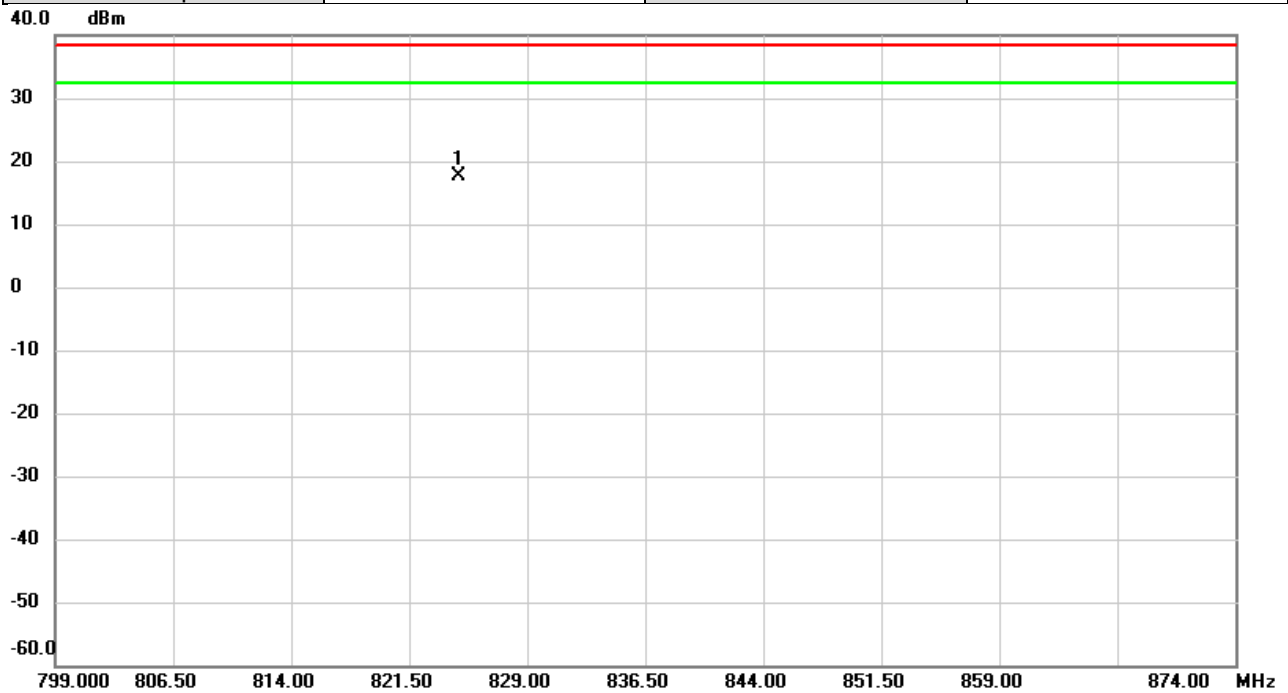


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 845.4770 | 2.69          | 9.45           | 12.14       | 38.45 | -26.31 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24 |
| Test Channel | CH20450    | Polarization | Vertical  |
| Temp         | 24°C       | Hum.         | 58%       |

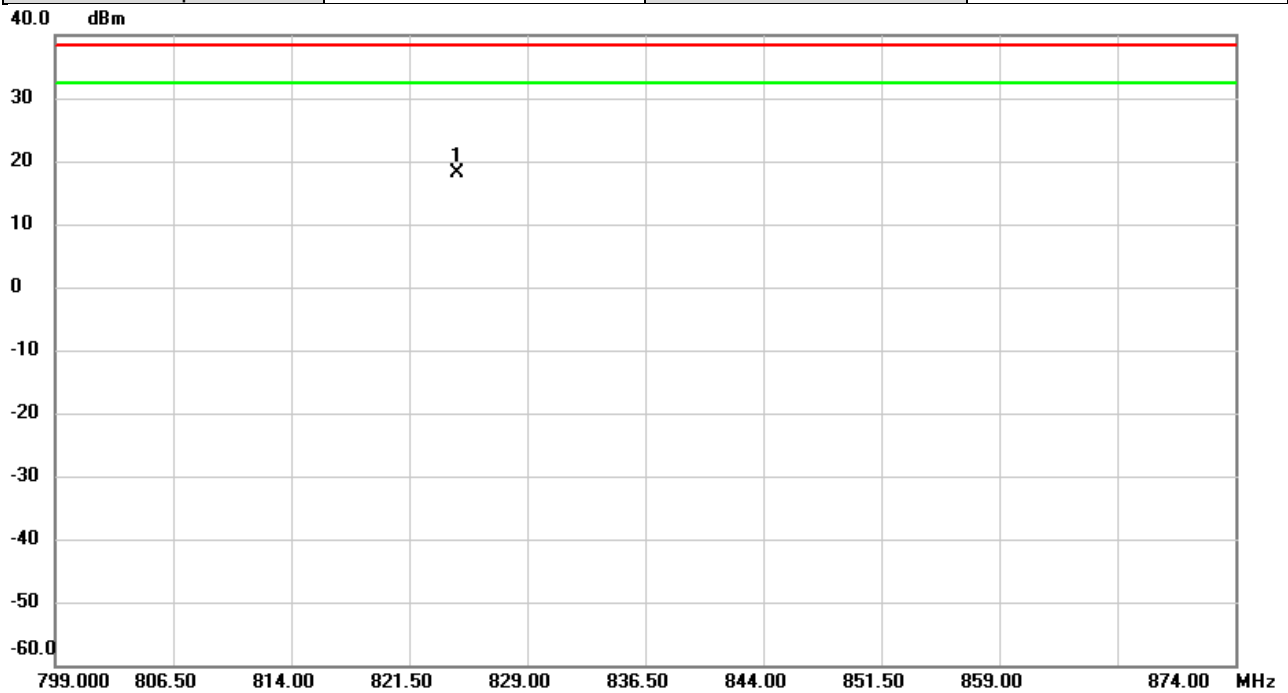


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 824.6325 | 7.72          | 9.80           | 17.52       | 38.45 | -20.93 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24  |
| Test Channel | CH20450    | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |

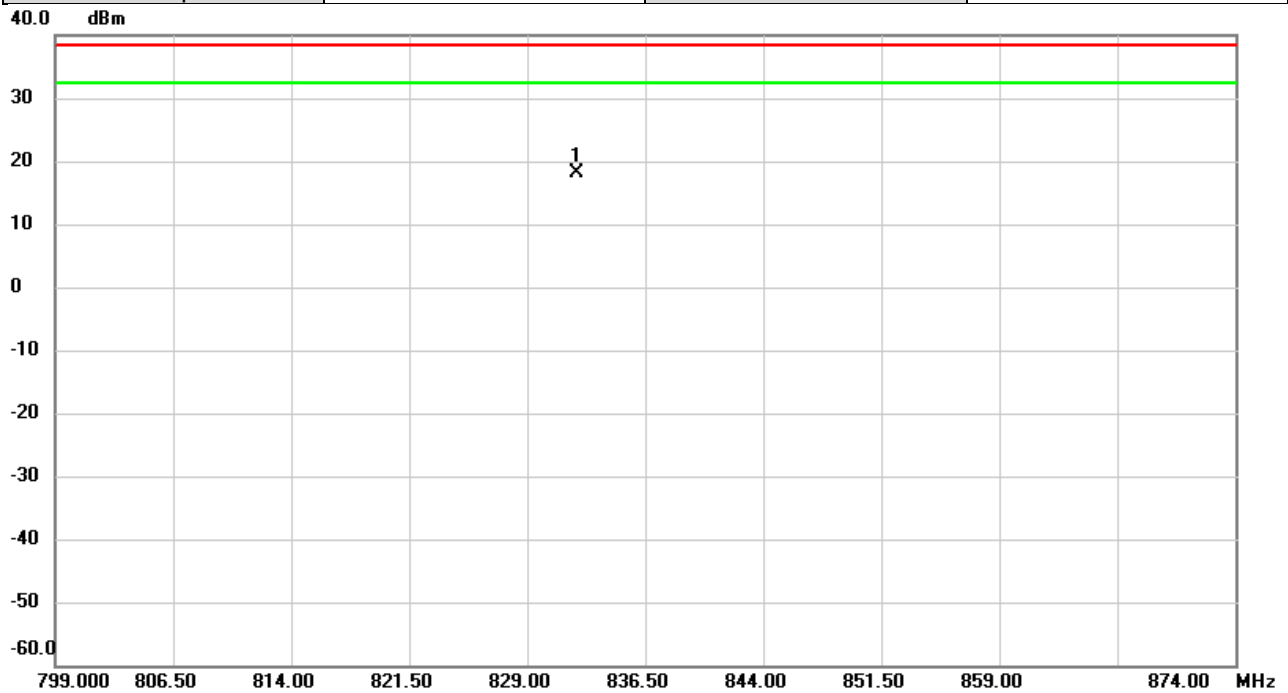


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 824.5523 | 8.16          | 9.96           | 18.12       | 38.45 | -20.33 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24 |
| Test Channel | CH20525    | Polarization | Vertical  |
| Temp         | 24°C       | Hum.         | 58%       |

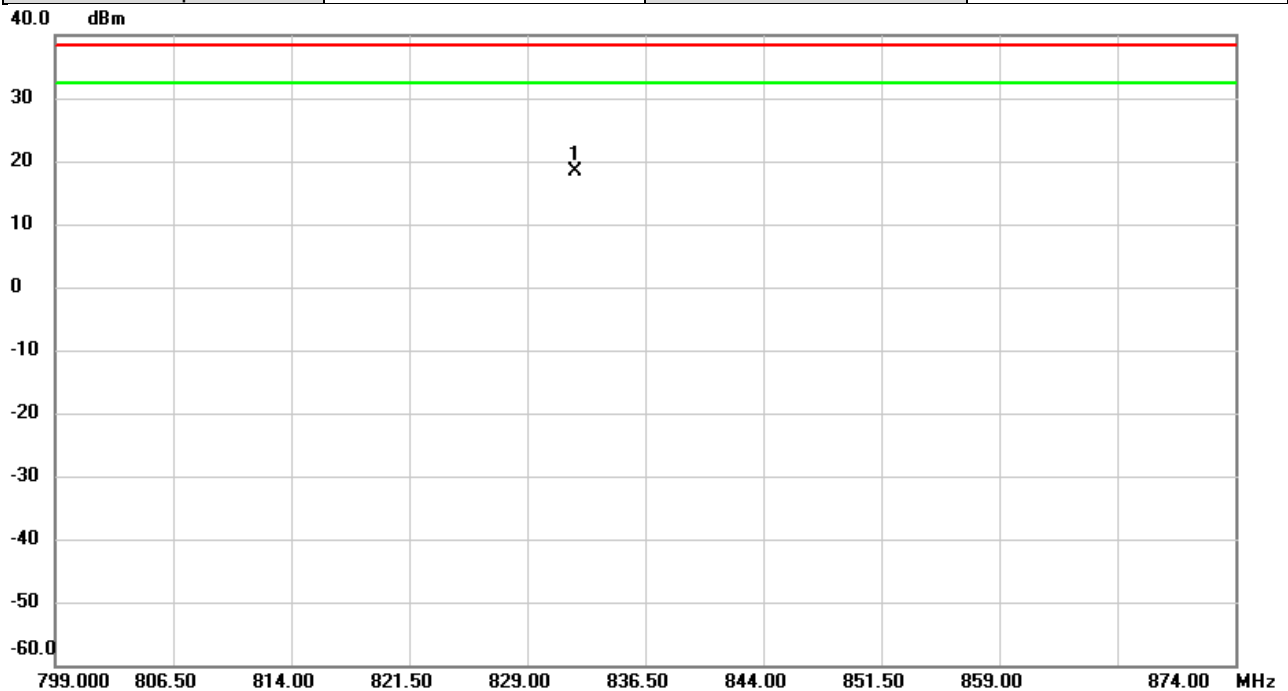


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     |          |         |
| 1   | *   | 832.1246 | 8.25          | 9.85           | 18.10       | 38.45 | -20.35 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24  |
| Test Channel | CH20525    | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |

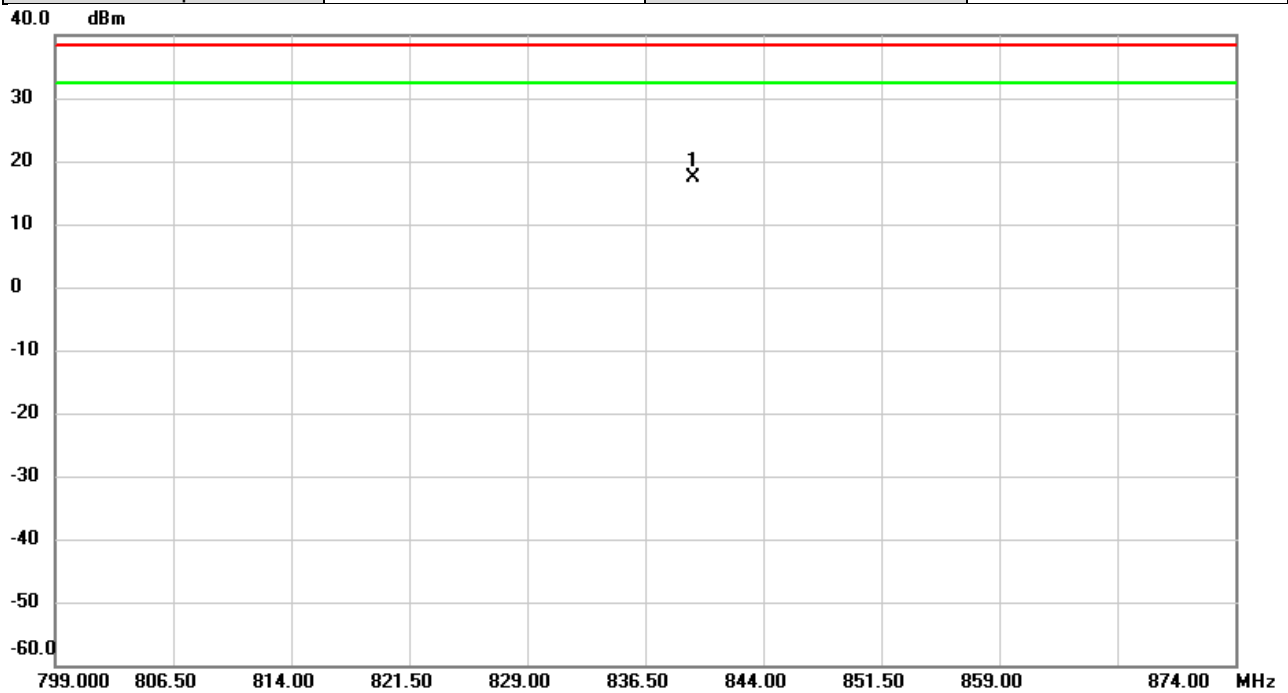


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 832.0418 | 8.51          | 9.78           | 18.29       | 38.45 | -20.16 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24 |
| Test Channel | CH20600    | Polarization | Vertical  |
| Temp         | 24°C       | Hum.         | 58%       |

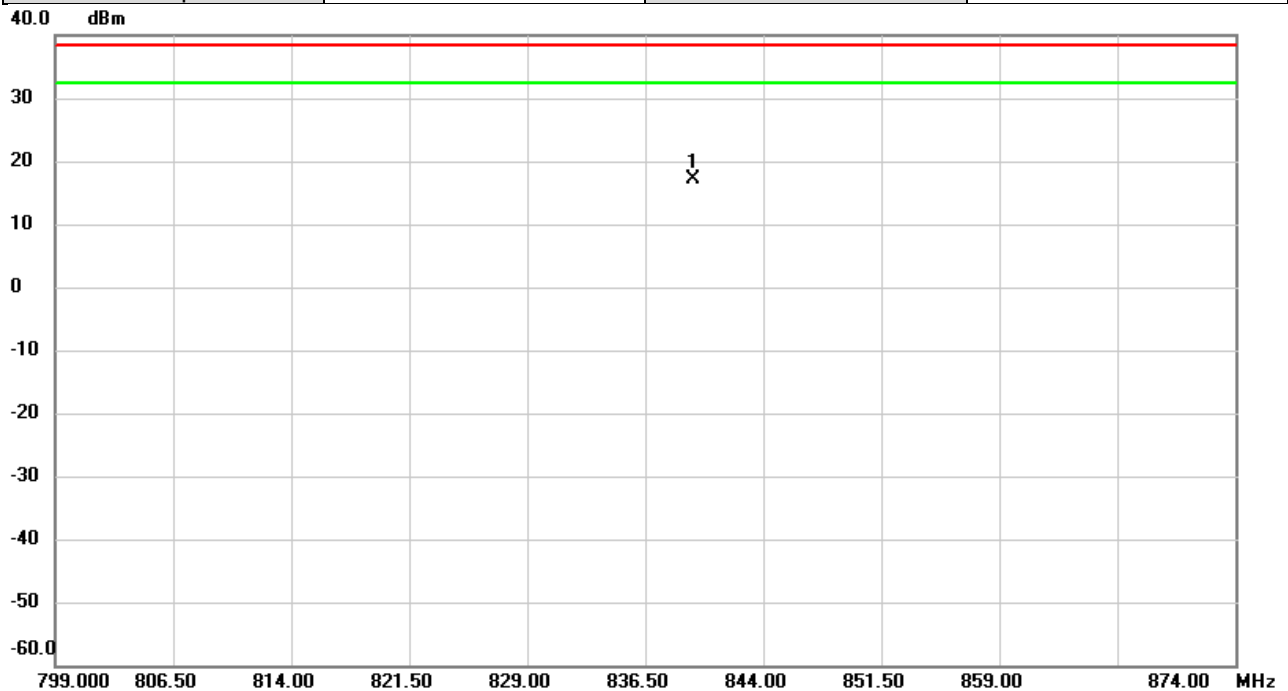


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 839.5721 | 7.56          | 9.90           | 17.46       | 38.45 | -20.99 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24  |
| Test Channel | CH20600    | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm   | dB     | Detector | Comment |
| 1   | *   | 839.5314 | 7.15          | 9.90           | 17.05       | 38.45 | -21.40 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX B OCCUPIED BANDWIDTH

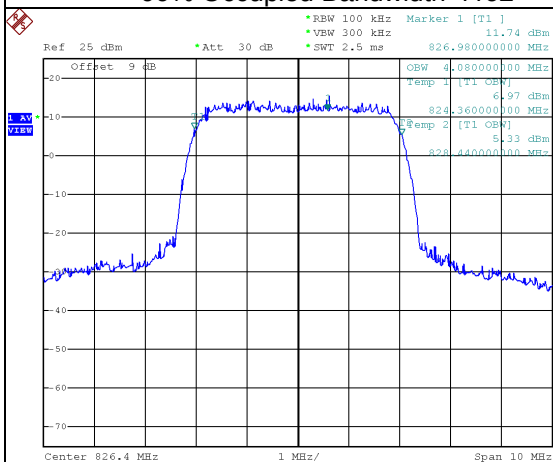
## WCDMA Band V\_WCDMA

### QPSK

| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
|---------|-----------------|------------------------------|---------|-----------------|----------------------|
| 4132    | 826.4           | 4.08                         | 4132    | 826.4           | 4.62                 |
| 4183    | 836.6           | 4.08                         | 4183    | 836.3           | 4.60                 |
| 4233    | 846.6           | 4.06                         | 4233    | 846.6           | 4.68                 |

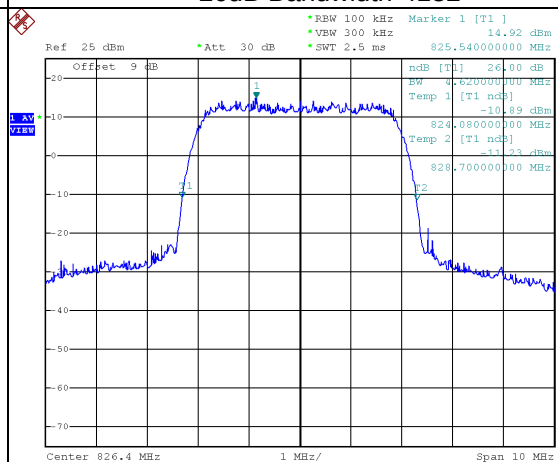
### Spectrum Plot

#### 99% Occupied Bandwidth-4132



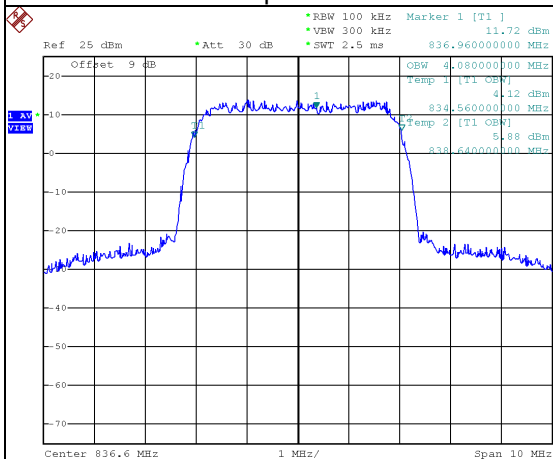
Date: 21.APR.2021 21:07:08

#### 26dB Bandwidth-4132



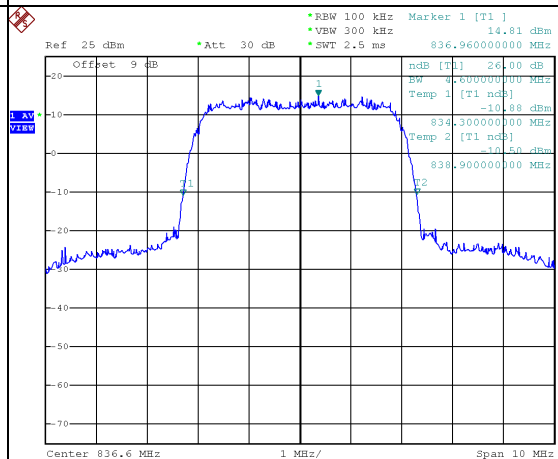
Date: 21.APR.2021 21:08:21

#### 99% Occupied Bandwidth-4183



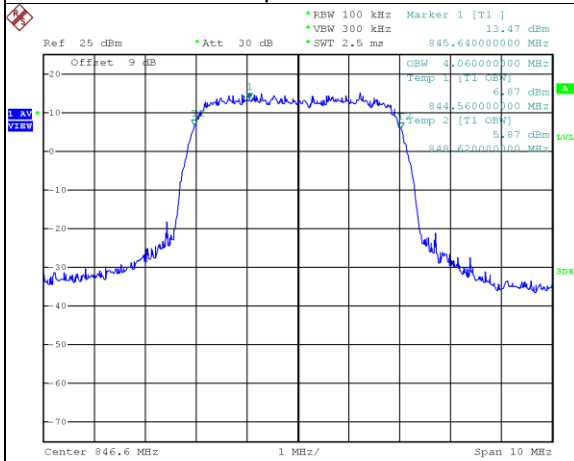
Date: 21.APR.2021 21:04:31

#### 26dB Bandwidth-4183



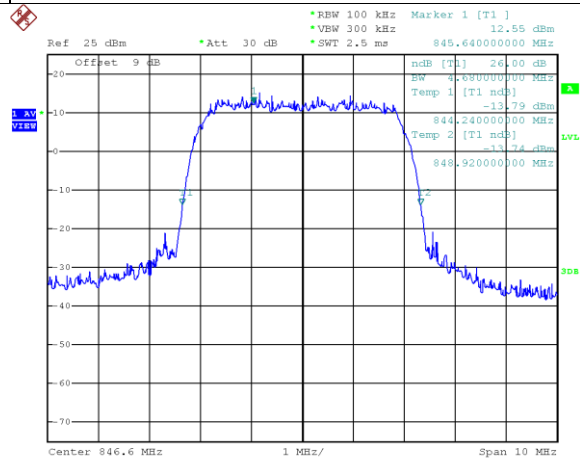
Date: 21.APR.2021 21:03:24

## 99% Occupied Bandwidth-4233



Date: 21.APR.2021 20:59:21

## 26dB Bandwidth-4233

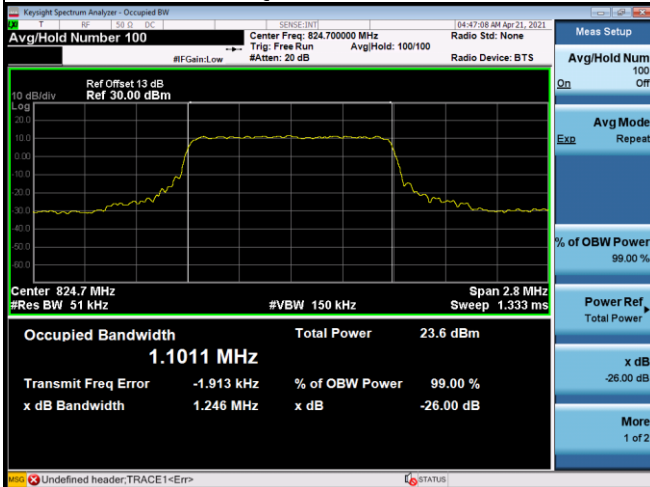


Date: 21.APR.2021 21:01:13

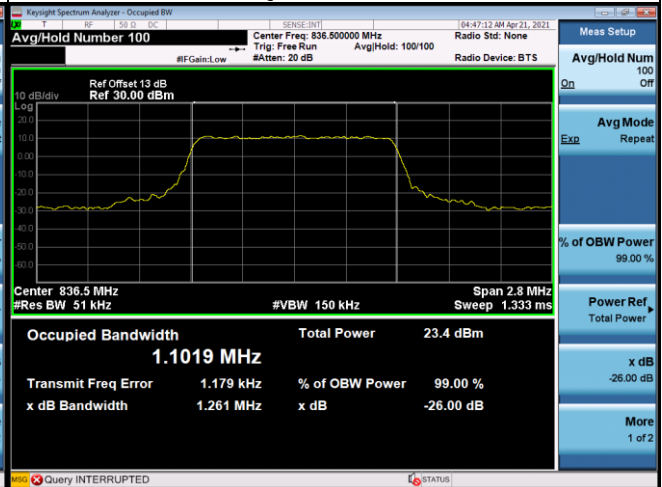
| LTE Band 5_1.4M |                 |                              |         |                 |                      |
|-----------------|-----------------|------------------------------|---------|-----------------|----------------------|
| QPSK            |                 |                              |         |                 |                      |
| Channel         | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 20407           | 824.7           | 1.1011                       | 20407   | 824.7           | 1.246                |
| 20525           | 836.5           | 1.1019                       | 20525   | 836.5           | 1.261                |
| 20643           | 848.3           | 1.1056                       | 20643   | 848.3           | 1.285                |
| 16QAM           |                 |                              |         |                 |                      |
| Channel         | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 20407           | 824.7           | 1.1045                       | 20407   | 824.7           | 1.310                |
| 20525           | 836.5           | 1.1021                       | 20525   | 836.5           | 1.266                |
| 20643           | 848.3           | 1.1095                       | 20643   | 848.3           | 1.301                |

## Spectrum Plot

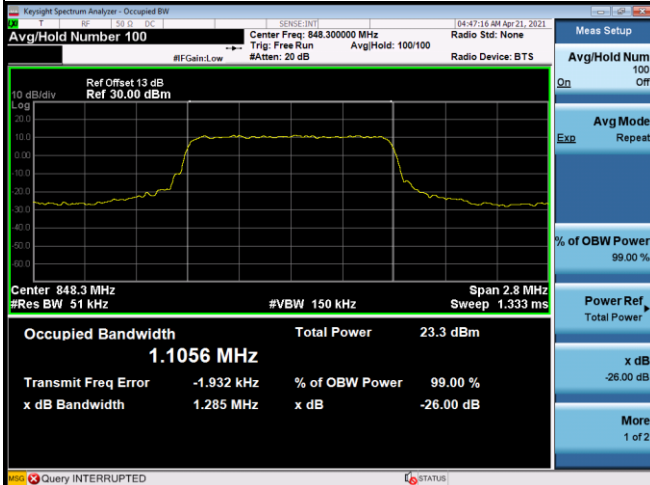
### QPSK-20407



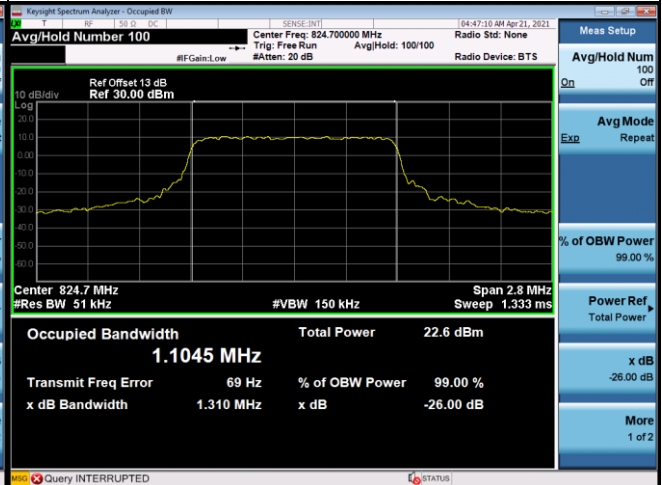
### QPSK-20525



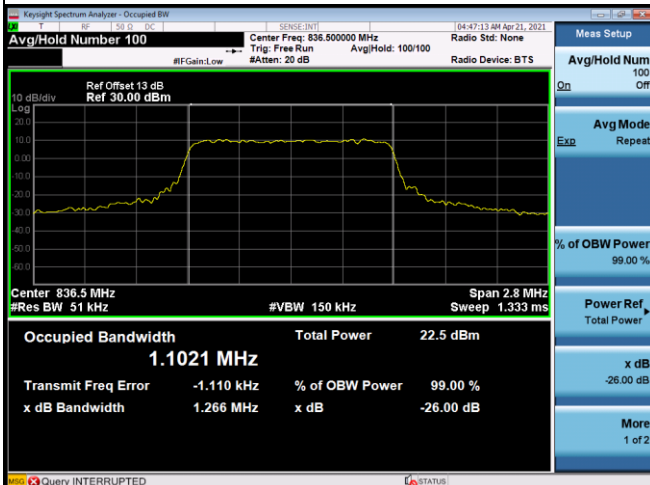
### QPSK-20643



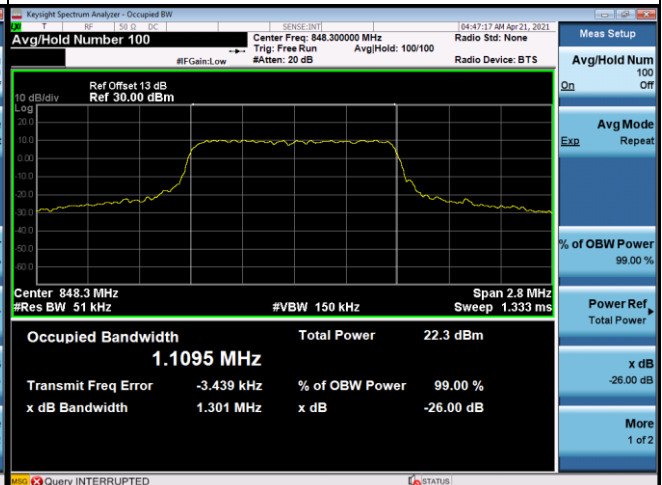
### 16QAM-20407



### 16QAM-20525



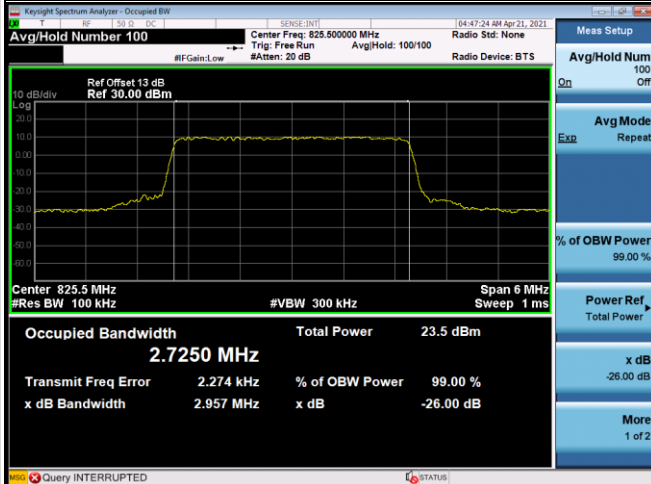
### 16QAM-20643



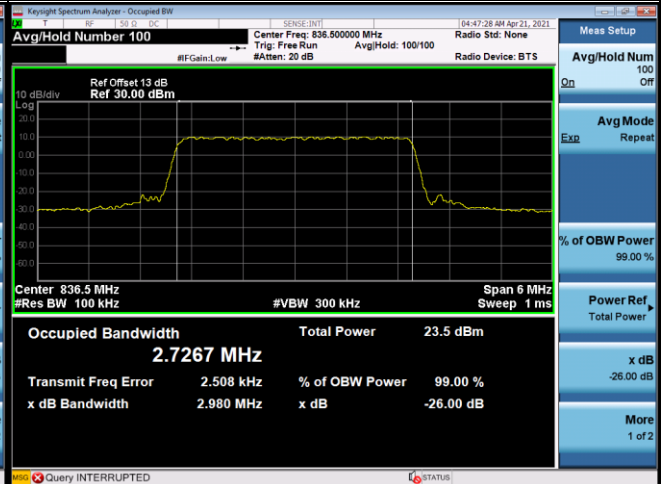
| LTE Band 5_3M |                 |                              |         |                 |                      |
|---------------|-----------------|------------------------------|---------|-----------------|----------------------|
| QPSK          |                 |                              |         |                 |                      |
| Channel       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 20415         | 825.5           | 2.7250                       | 20415   | 825.5           | 2.957                |
| 20525         | 836.5           | 2.7267                       | 20525   | 836.5           | 2.980                |
| 20635         | 847.5           | 2.7241                       | 20635   | 847.5           | 2.996                |
| 16QAM         |                 |                              |         |                 |                      |
| Channel       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 20415         | 825.5           | 2.7233                       | 20415   | 825.5           | 2.967                |
| 20525         | 836.5           | 2.7193                       | 20525   | 836.5           | 2.973                |
| 20635         | 847.5           | 2.7170                       | 20635   | 847.5           | 2.973                |

## Spectrum Plot

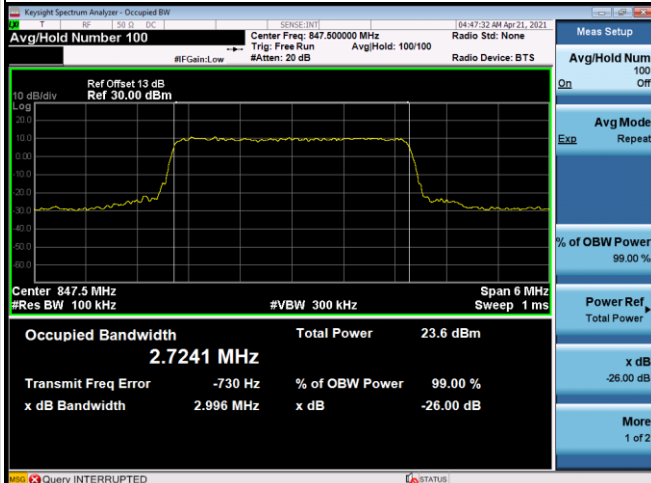
### QPSK-20415



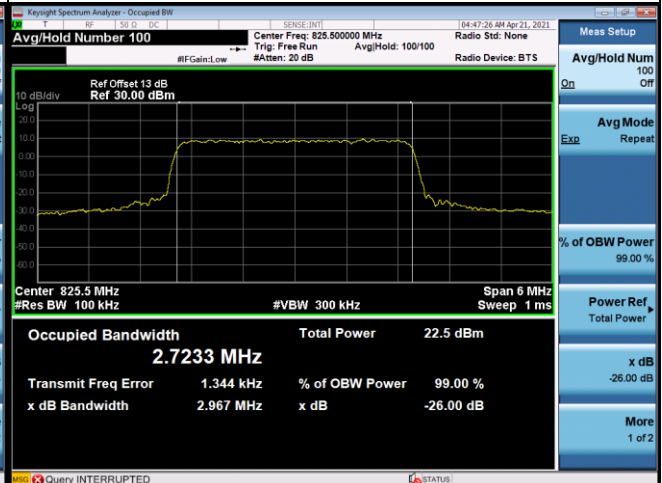
### QPSK-20525



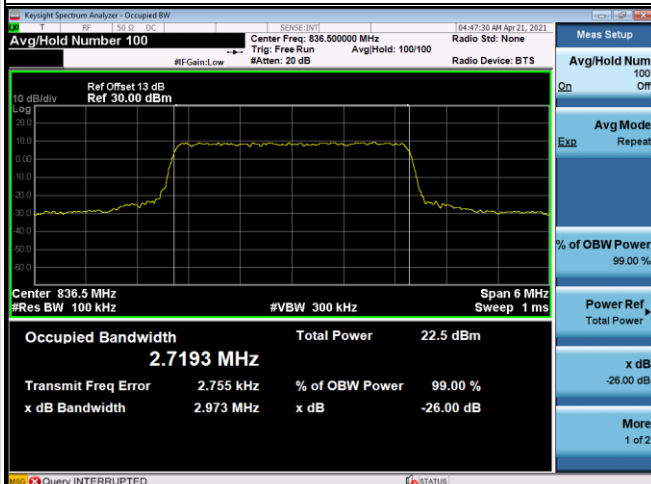
### QPSK-20635



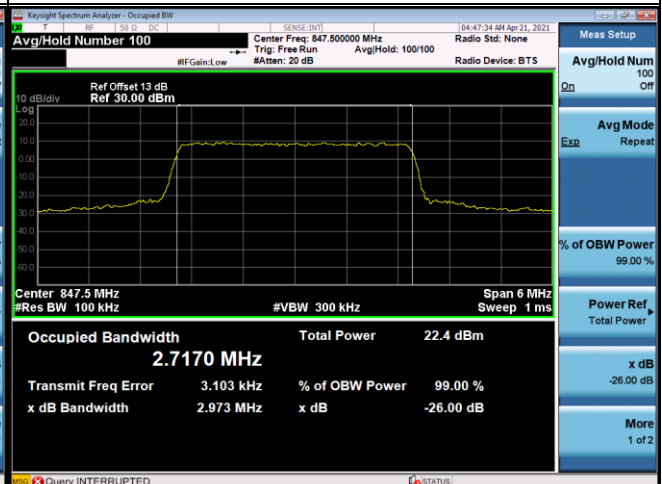
### 16QAM-20415



### 16QAM-20525



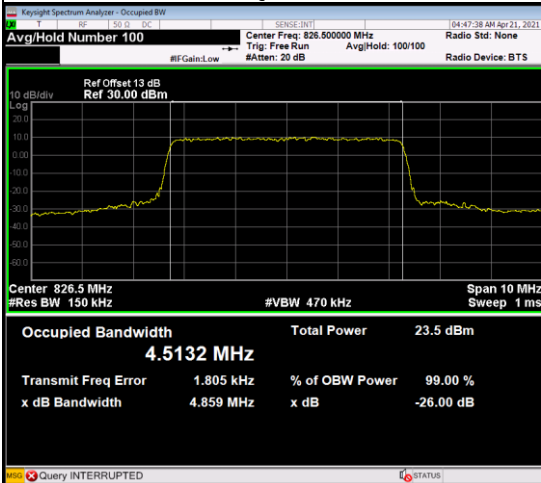
### 16QAM-20635



| LTE Band 5_5M |                 |                              |         |                 |                      |
|---------------|-----------------|------------------------------|---------|-----------------|----------------------|
| QPSK          |                 |                              |         |                 |                      |
| Channel       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 20425         | 826.5           | 4.5132                       | 20425   | 826.5           | 4.859                |
| 20525         | 836.5           | 4.5015                       | 20525   | 836.5           | 4.859                |
| 20625         | 846.5           | 4.5127                       | 20625   | 846.5           | 4.867                |
| 16QAM         |                 |                              |         |                 |                      |
| Channel       | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 20425         | 826.5           | 4.4998                       | 20425   | 826.5           | 4.863                |
| 20525         | 836.5           | 4.4994                       | 20525   | 836.5           | 4.876                |
| 20625         | 846.5           | 4.5025                       | 20625   | 846.5           | 4.853                |

## Spectrum Plot

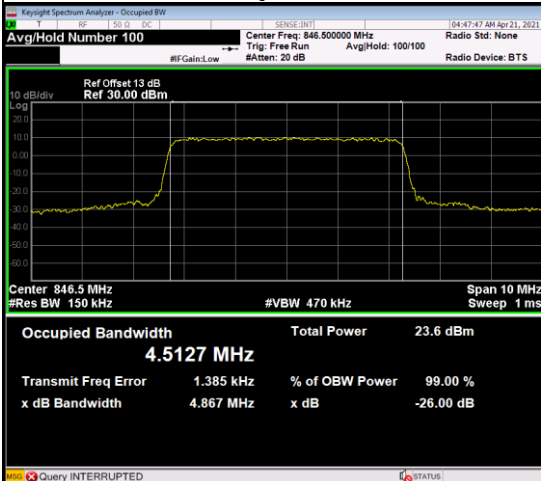
### QPSK-20425



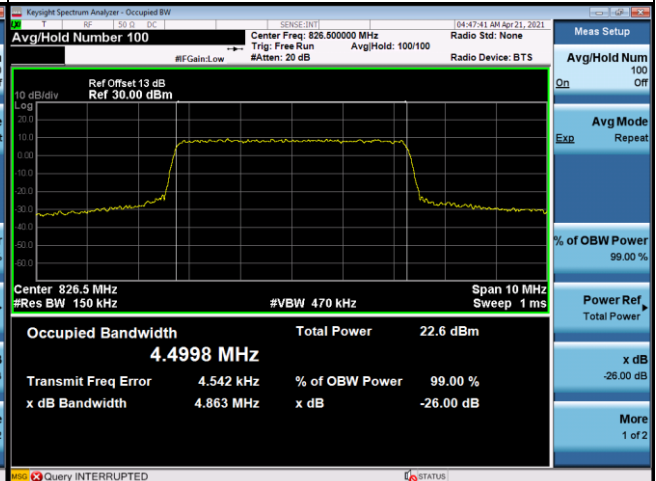
### QPSK-20525



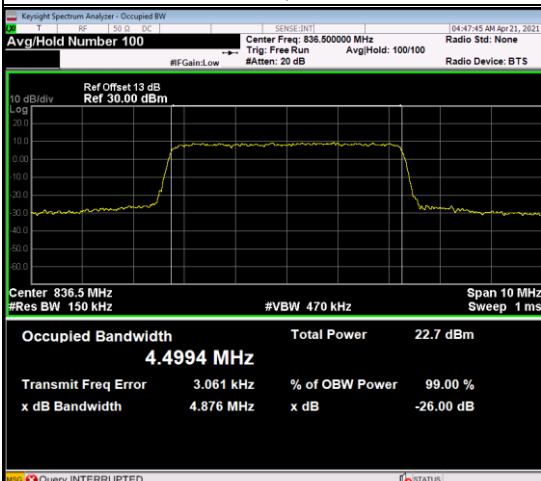
### QPSK-20625



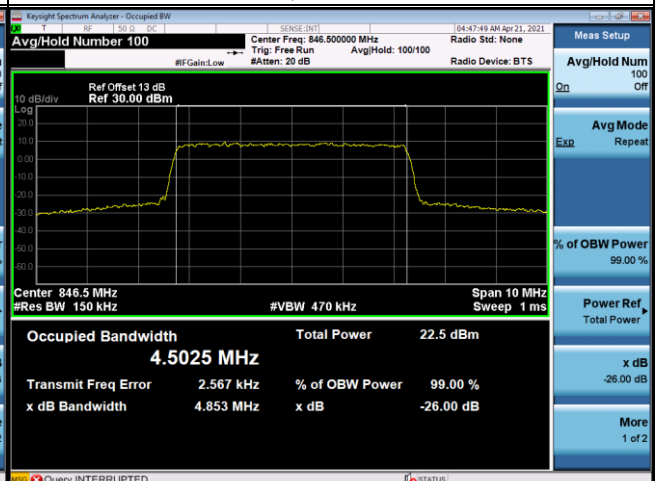
### 16QAM-20425



### 16QAM-20525



### 16QAM-20625



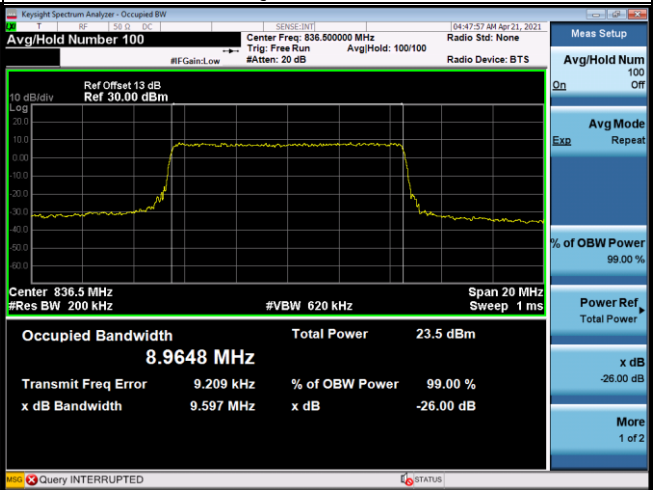
| LTE Band 5_10M |                 |                              |         |                 |                      |
|----------------|-----------------|------------------------------|---------|-----------------|----------------------|
| QPSK           |                 |                              |         |                 |                      |
| Channel        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 20450          | 829.0           | 8.9617                       | 20450   | 829.0           | 9.540                |
| 20525          | 836.5           | 8.9648                       | 20525   | 836.5           | 9.597                |
| 20600          | 844.0           | 8.9552                       | 20600   | 844.0           | 9.539                |
| 16QAM          |                 |                              |         |                 |                      |
| Channel        | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
| 20450          | 829.0           | 8.9561                       | 20450   | 829.0           | 9.509                |
| 20525          | 836.5           | 8.9605                       | 20525   | 836.5           | 9.522                |
| 20600          | 844.0           | 8.9518                       | 20600   | 844.0           | 9.483                |

## Spectrum Plot

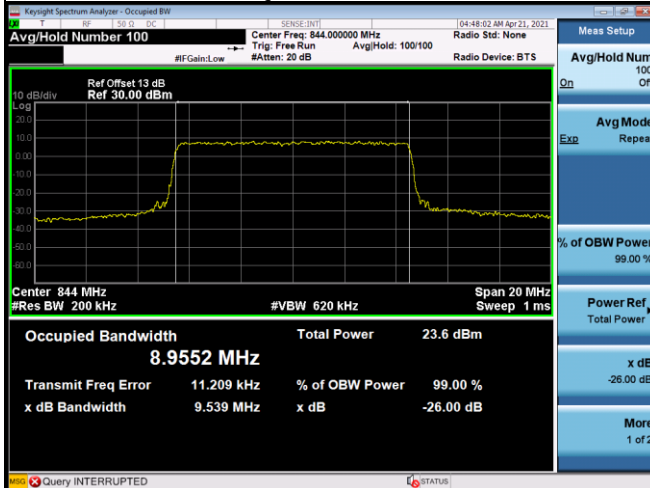
### QPSK-20450



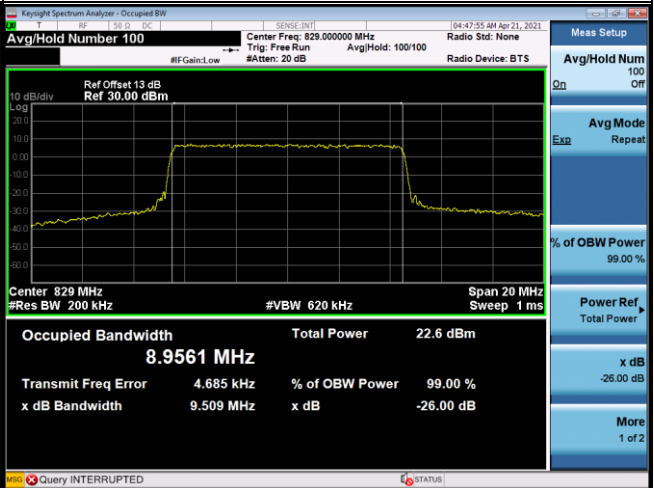
### QPSK-20525



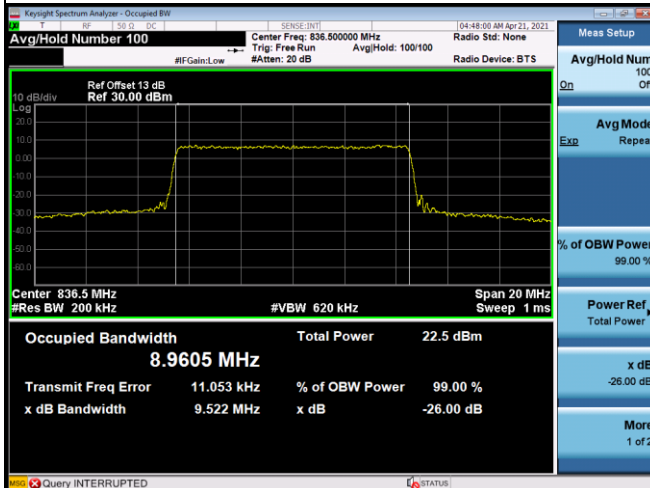
### QPSK-20600



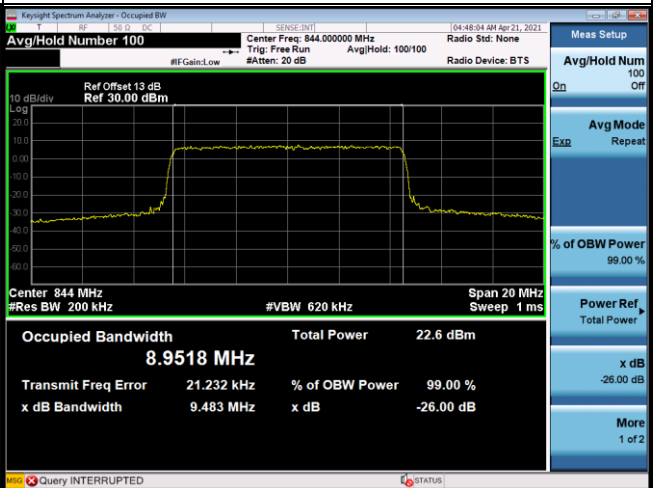
### 16QAM-20450



### 16QAM-20525



### 16QAM-20600



## **APPENDIX C    CONDUCTED SPURIOUS EMISSION**

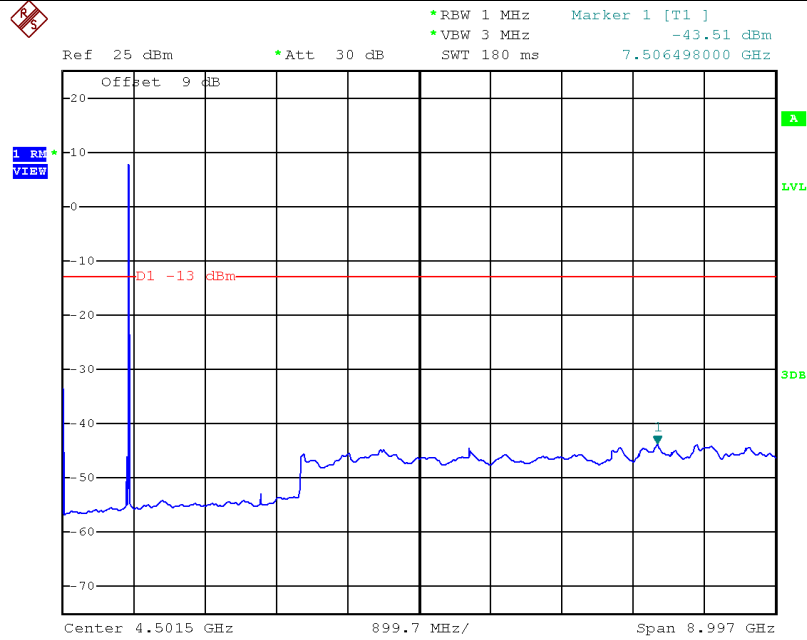
## WCDMA Band V\_WCDMA Spectrum Plot

Channel

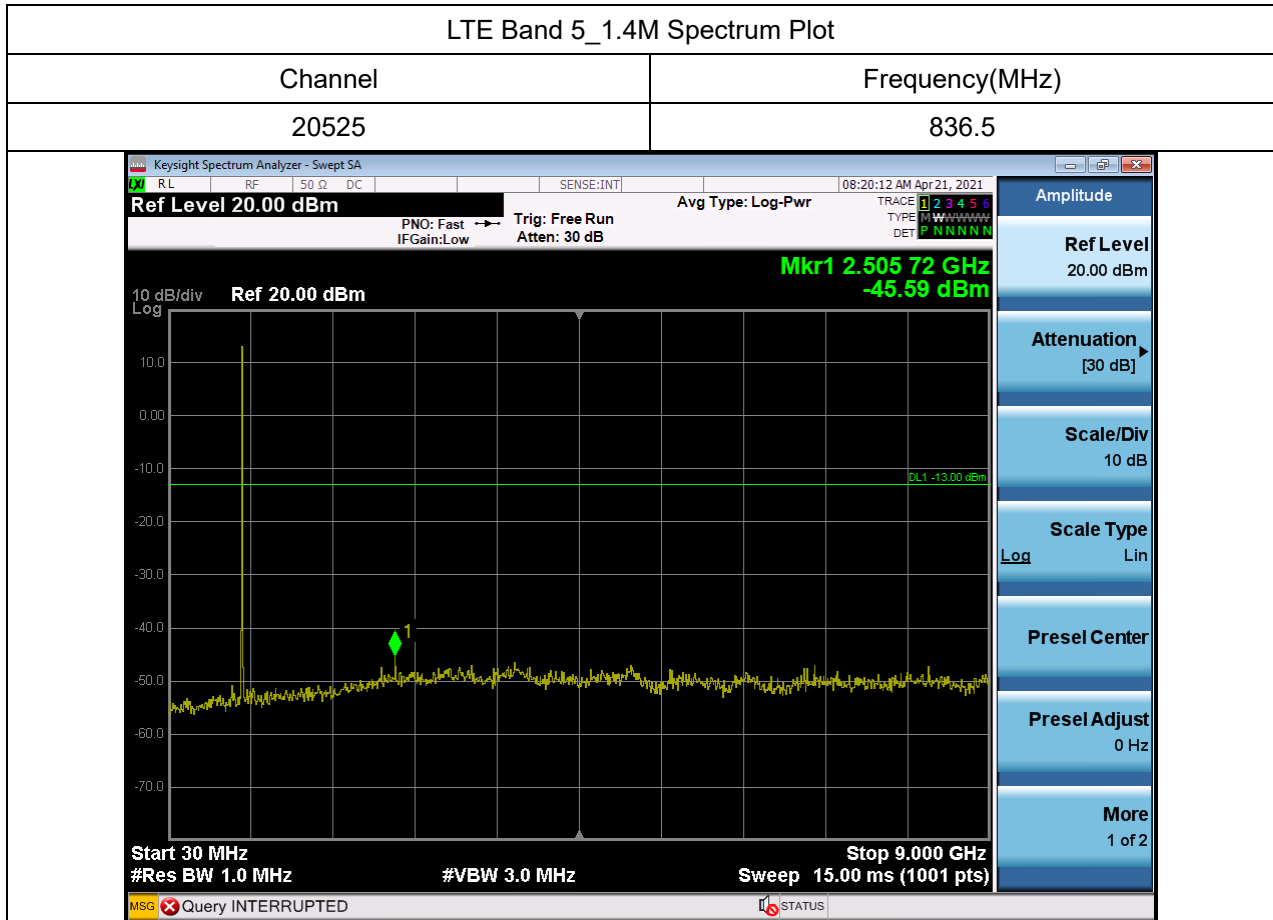
Frequency(MHz)

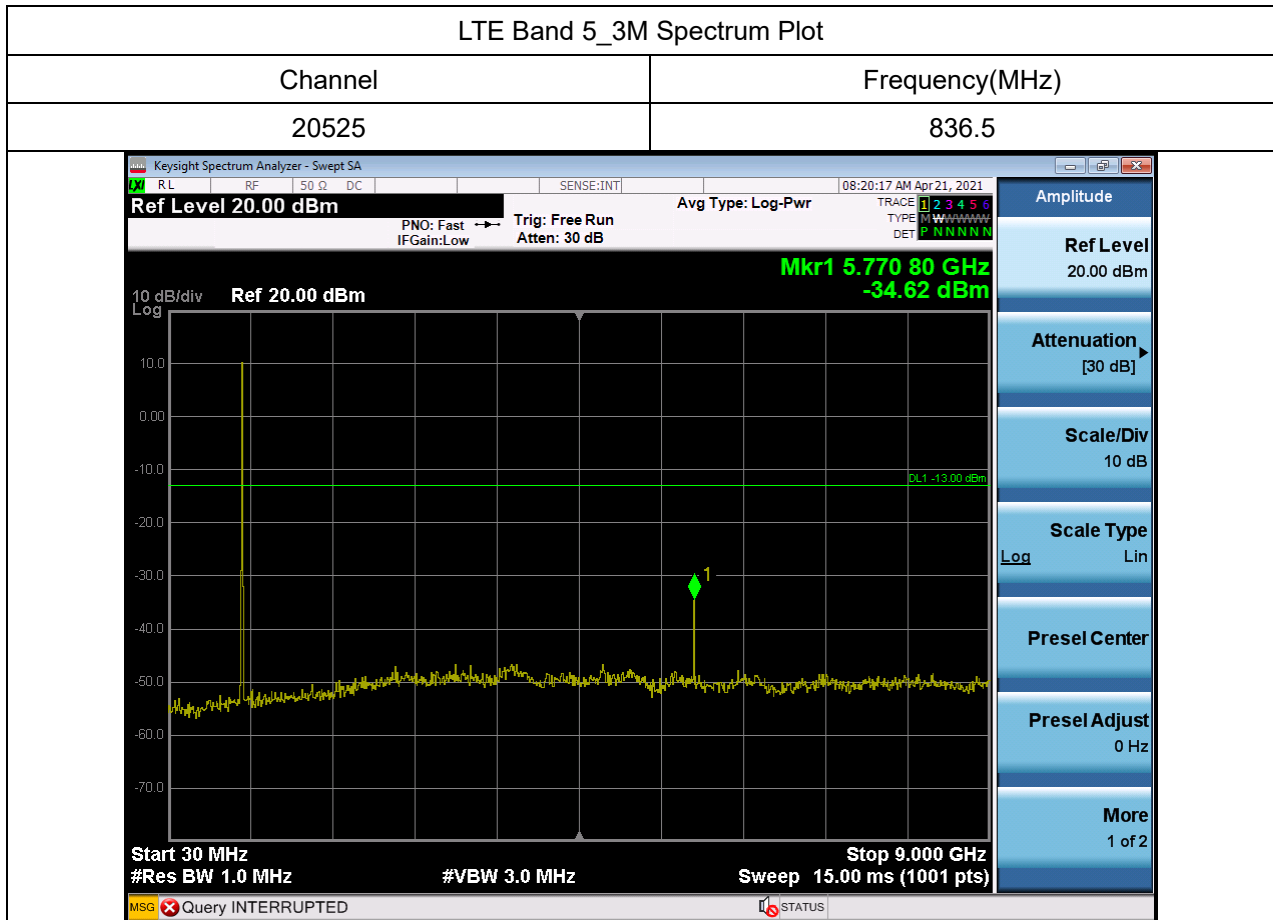
4183

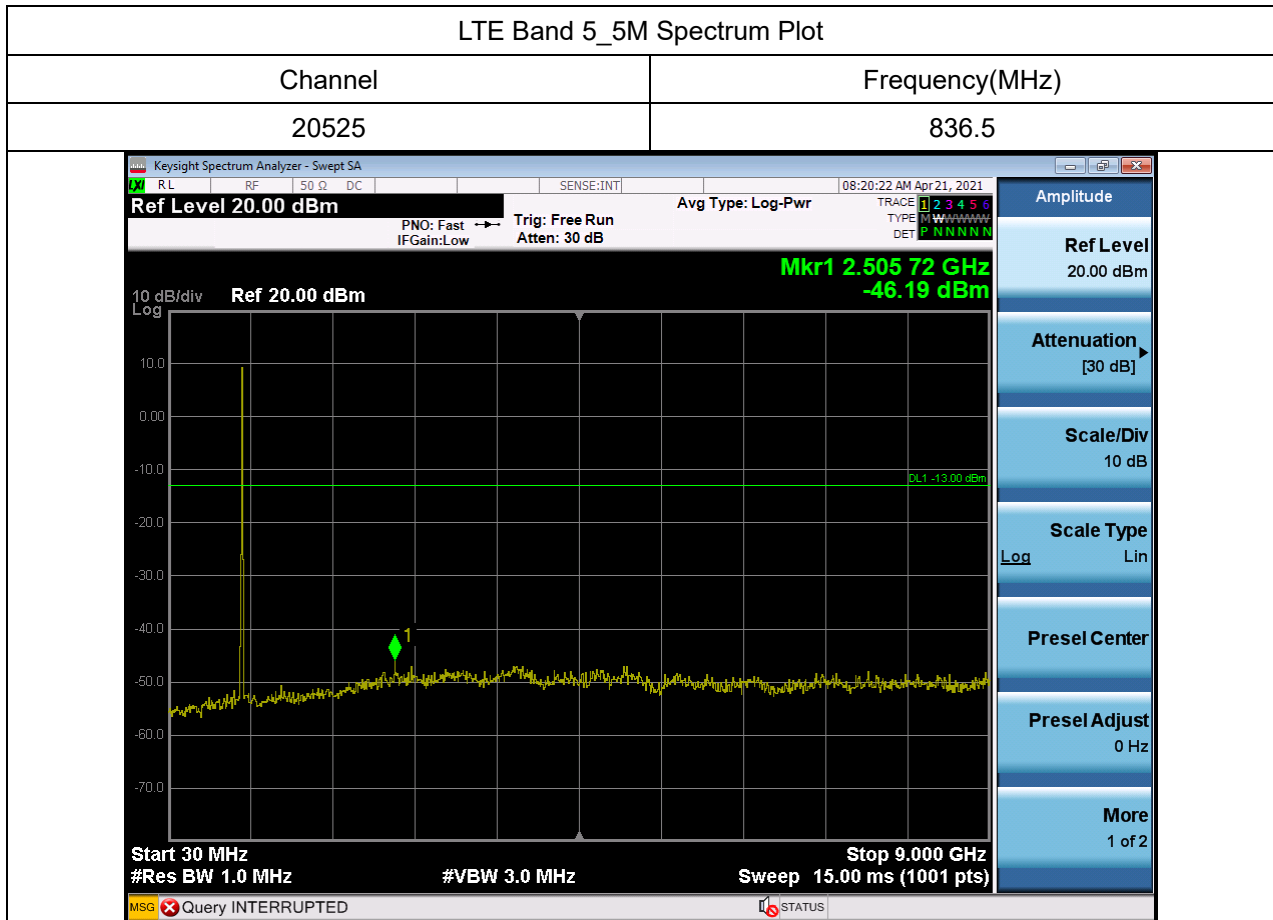
836.6



Date: 21.APR.2021 21:53:41







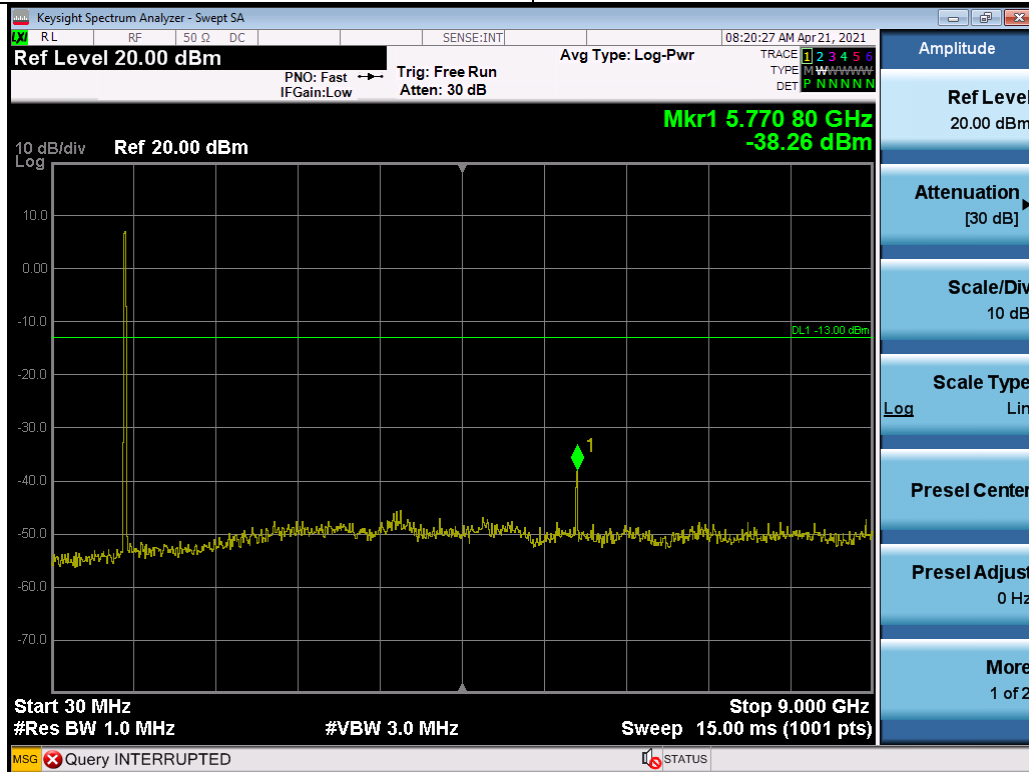
## LTE Band 5\_10M Spectrum Plot

Channel

20525

Frequency(MHz)

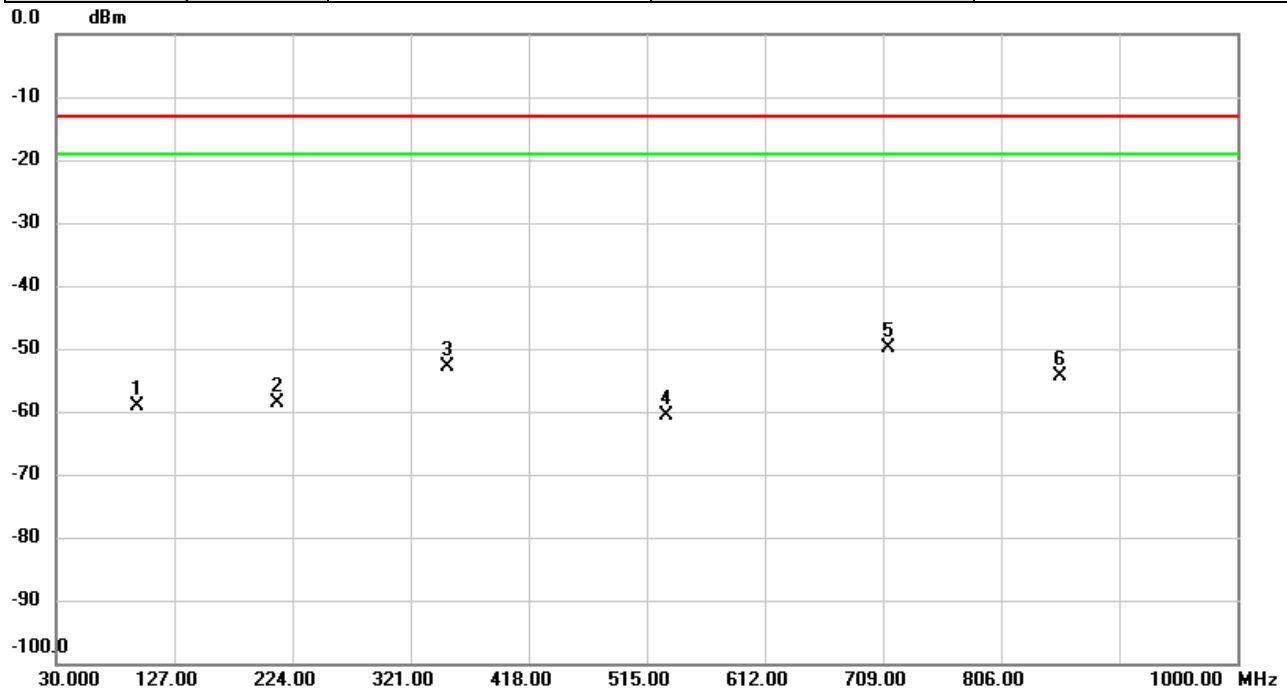
836.5



## **APPENDIX D    RADIATED SPURIOUS EMISSIONS**

For External antenna:

|              |        |              |           |
|--------------|--------|--------------|-----------|
| Test Mode    | Band V | Test Date    | 2021/8/30 |
| Test Channel | CH4407 | Polarization | Vertical  |
| Temp         | 23°C   | Hum.         | 58%       |

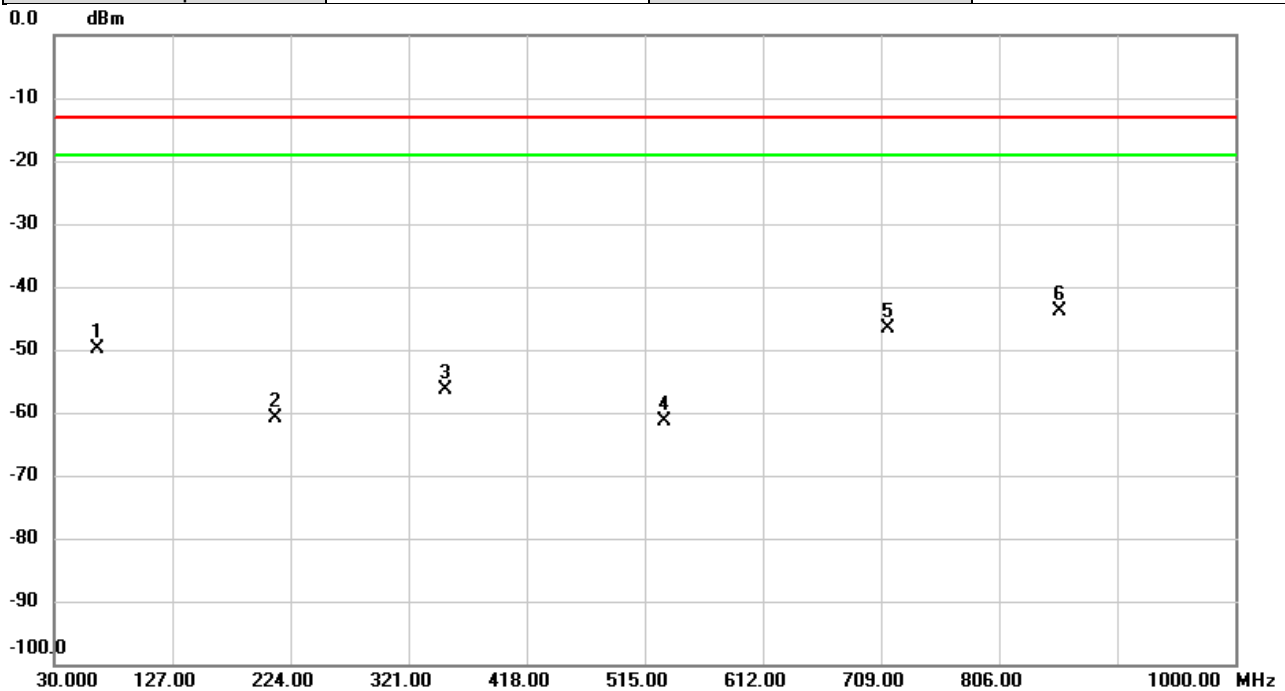


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     |          |         |
| 1   |     | 95.9923  | -58.89        | -0.20          | -59.09       | -13.00 | -46.09 | peak     |         |
| 2   |     | 211.8426 | -60.93        | 2.31           | -58.62       | -13.00 | -45.62 | peak     |         |
| 3   |     | 351.2963 | -59.88        | 6.94           | -52.94       | -13.00 | -39.94 | peak     |         |
| 4   |     | 531.4253 | -67.77        | 7.20           | -60.57       | -13.00 | -47.57 | peak     |         |
| 5   | *   | 713.2355 | -62.38        | 12.55          | -49.83       | -13.00 | -36.83 | peak     |         |
| 6   |     | 855.0496 | -63.90        | 9.44           | -54.46       | -13.00 | -41.46 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |        |              |            |
|--------------|--------|--------------|------------|
| Test Mode    | Band V | Test Date    | 2021/8/30  |
| Test Channel | CH4407 | Polarization | Horizontal |
| Temp         | 23°C   | Hum.         | 58%        |

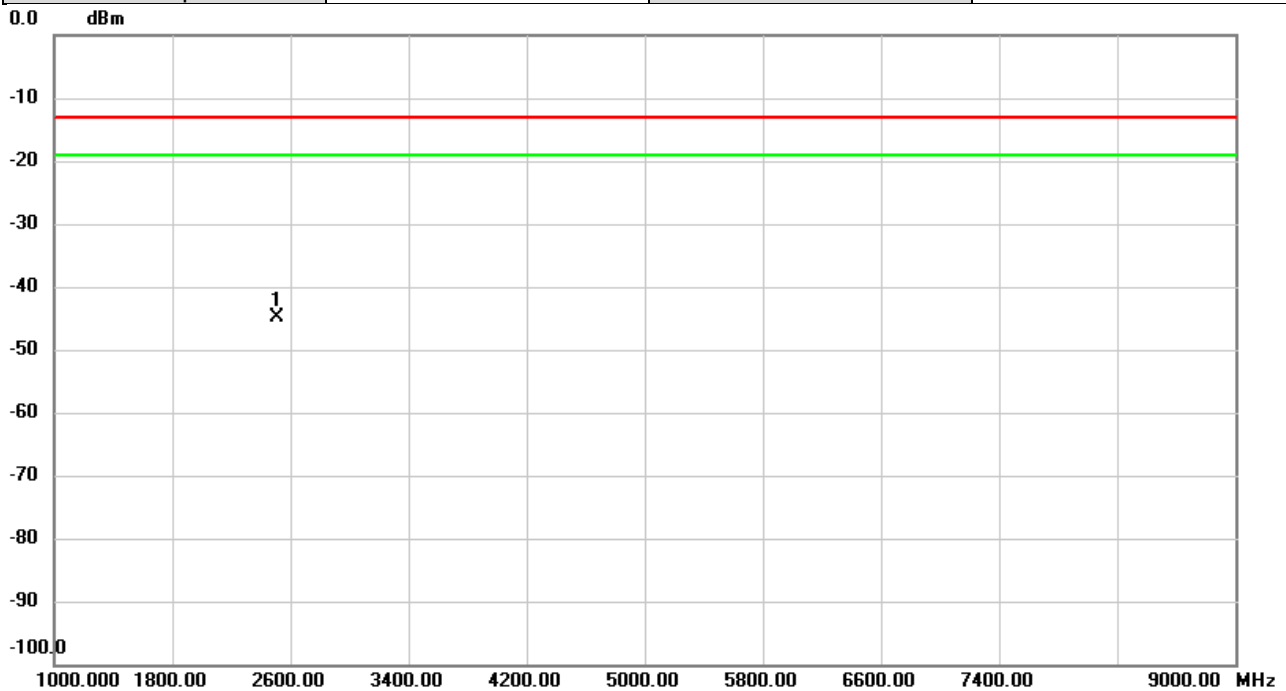


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   |     | 65.3080  | -55.38        | 5.50           | -49.88      | -13.00 | -36.88 | peak     |         |
| 2   |     | 211.8426 | -58.85        | -1.90          | -60.75      | -13.00 | -47.75 | peak     |         |
| 3   |     | 351.2640 | -60.44        | 4.13           | -56.31      | -13.00 | -43.31 | peak     |         |
| 4   |     | 531.6840 | -70.95        | 9.51           | -61.44      | -13.00 | -48.44 | peak     |         |
| 5   |     | 714.7230 | -56.98        | 10.38          | -46.60      | -13.00 | -33.60 | peak     |         |
| 6   | *   | 855.4376 | -60.32        | 16.34          | -43.98      | -13.00 | -30.98 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |        |              |           |
|--------------|--------|--------------|-----------|
| Test Mode    | Band V | Test Date    | 2021/8/30 |
| Test Channel | CH4407 | Polarization | Vertical  |
| Temp         | 23°C   | Hum.         | 58%       |

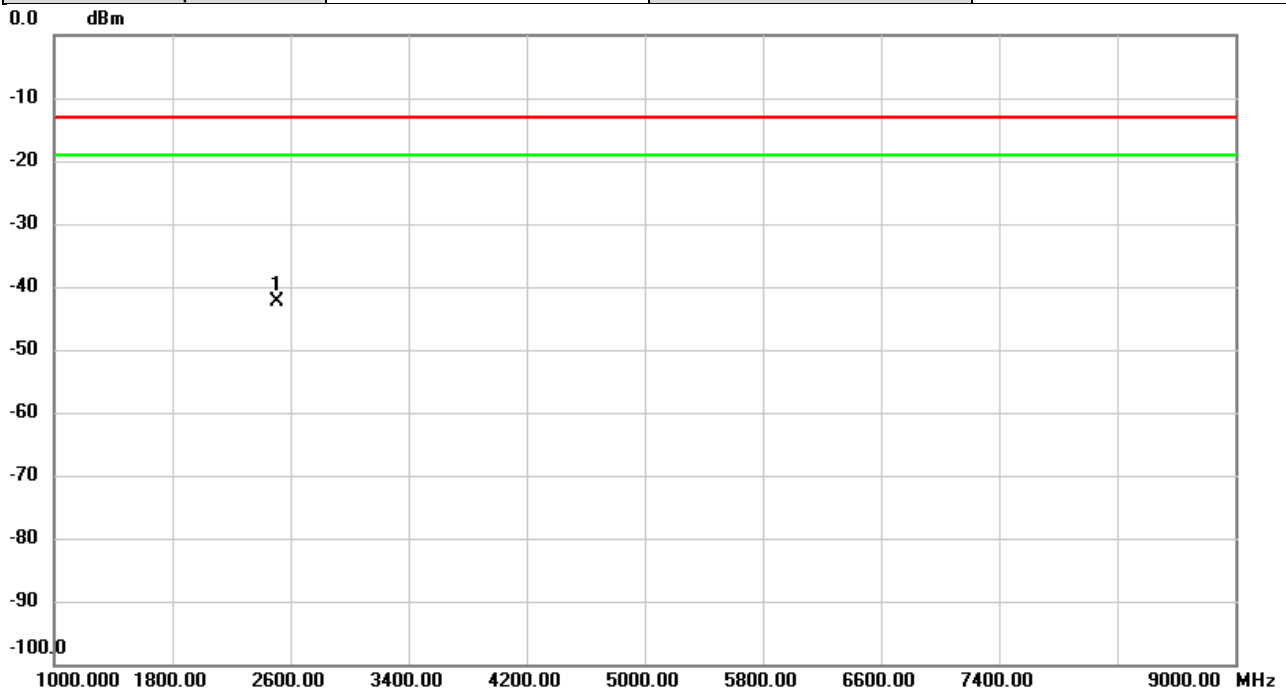


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 2512.533 | -40.48        | -4.39          | -44.87      | -13.00 | -31.87 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |        |              |            |
|--------------|--------|--------------|------------|
| Test Mode    | Band V | Test Date    | 2021/8/30  |
| Test Channel | CH4407 | Polarization | Horizontal |
| Temp         | 23°C   | Hum.         | 58%        |

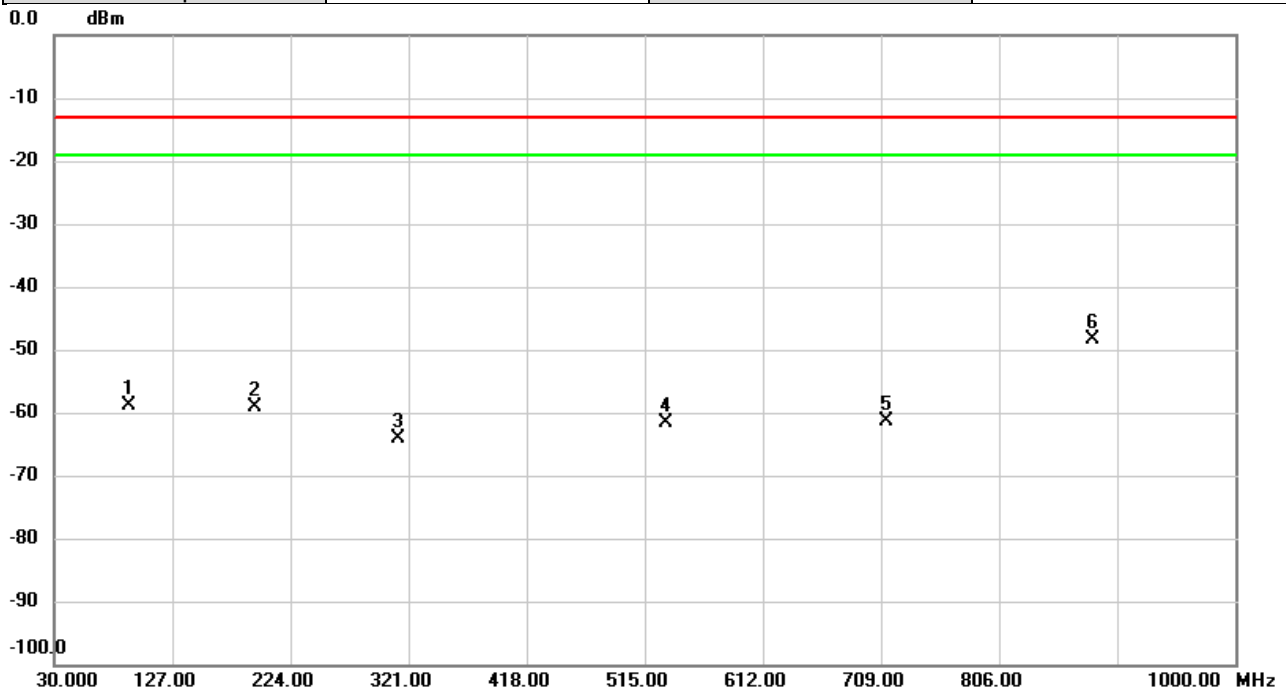


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   | *   | 2509.200 | -38.17        | -4.21          | -42.38      | -13.00 | -29.38 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30 |
| Test Channel | CH20525    | Polarization | Vertical  |
| Temp         | 23°C       | Hum.         | 58%       |

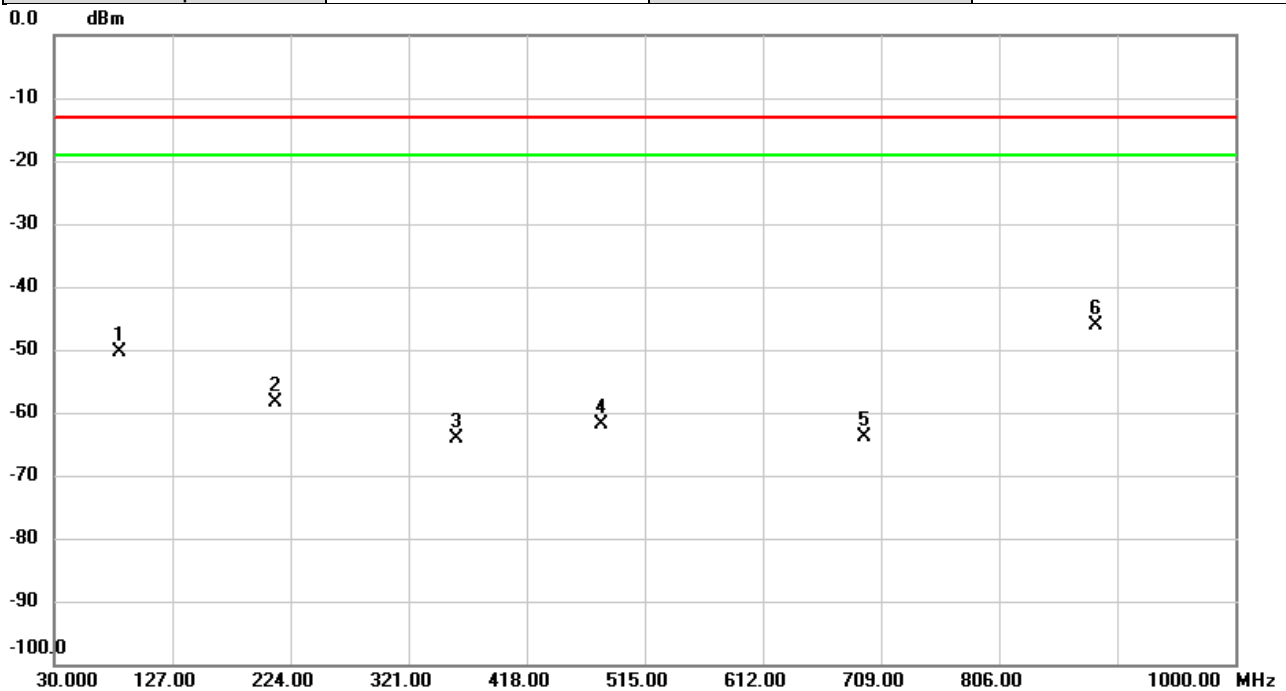


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   |     | 91.7566  | -57.61        | -1.35          | -58.96      | -13.00 | -45.96 | peak     |         |
| 2   |     | 195.5466 | -62.76        | 3.55           | -59.21      | -13.00 | -46.21 | peak     |         |
| 3   |     | 312.0113 | -71.69        | 7.51           | -64.18      | -13.00 | -51.18 | peak     |         |
| 4   |     | 533.0096 | -69.03        | 7.37           | -61.66      | -13.00 | -48.66 | peak     |         |
| 5   |     | 714.0763 | -73.89        | 12.52          | -61.37      | -13.00 | -48.37 | peak     |         |
| 6   | *   | 882.4360 | -58.72        | 10.43          | -48.29      | -13.00 | -35.29 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30  |
| Test Channel | CH20525    | Polarization | Horizontal |
| Temp         | 23°C       | Hum.         | 58%        |

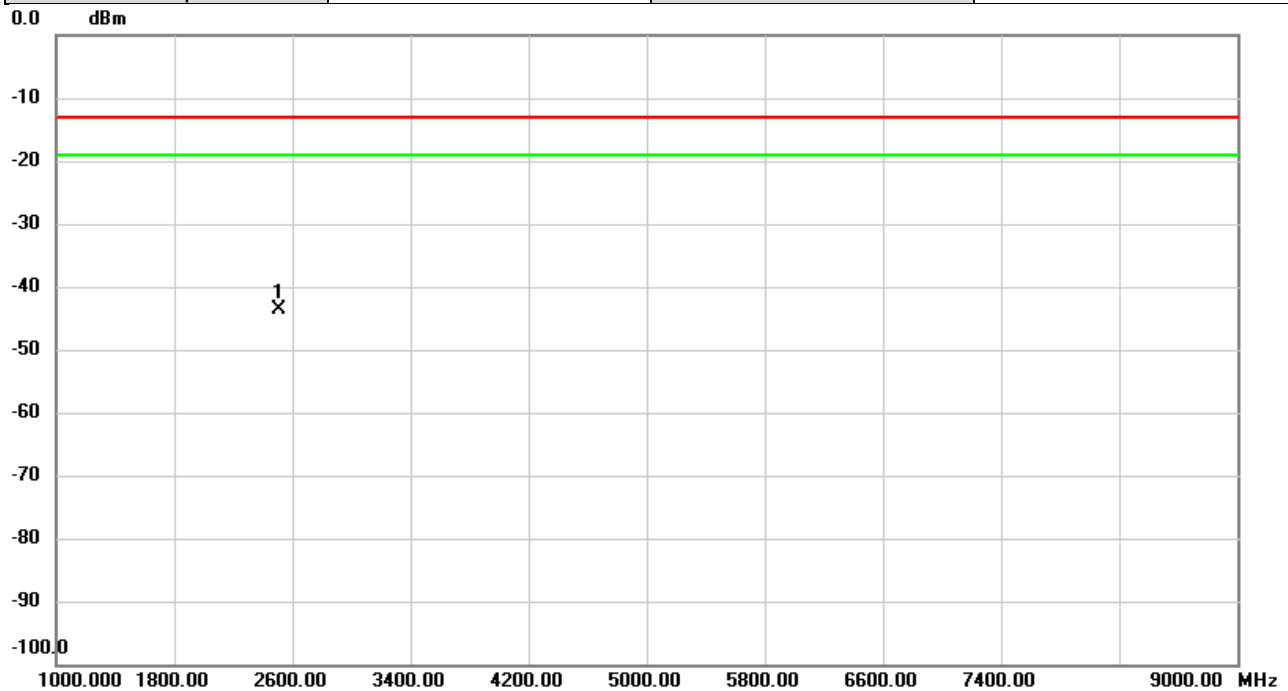


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   |     | 83.9643  | -55.17        | 4.92           | -50.25      | -13.00 | -37.25 | peak     |         |
| 2   |     | 211.9073 | -56.45        | -1.89          | -58.34      | -13.00 | -45.34 | peak     |         |
| 3   |     | 360.0263 | -68.56        | 4.50           | -64.06      | -13.00 | -51.06 | peak     |         |
| 4   |     | 480.0476 | -73.67        | 11.70          | -61.97      | -13.00 | -48.97 | peak     |         |
| 5   |     | 695.9696 | -73.11        | 9.20           | -63.91      | -13.00 | -50.91 | peak     |         |
| 6   | *   | 885.3136 | -61.96        | 15.93          | -46.03      | -13.00 | -33.03 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30 |
| Test Channel | CH20525    | Polarization | Vertical  |
| Temp         | 23°C       | Hum.         | 58%       |

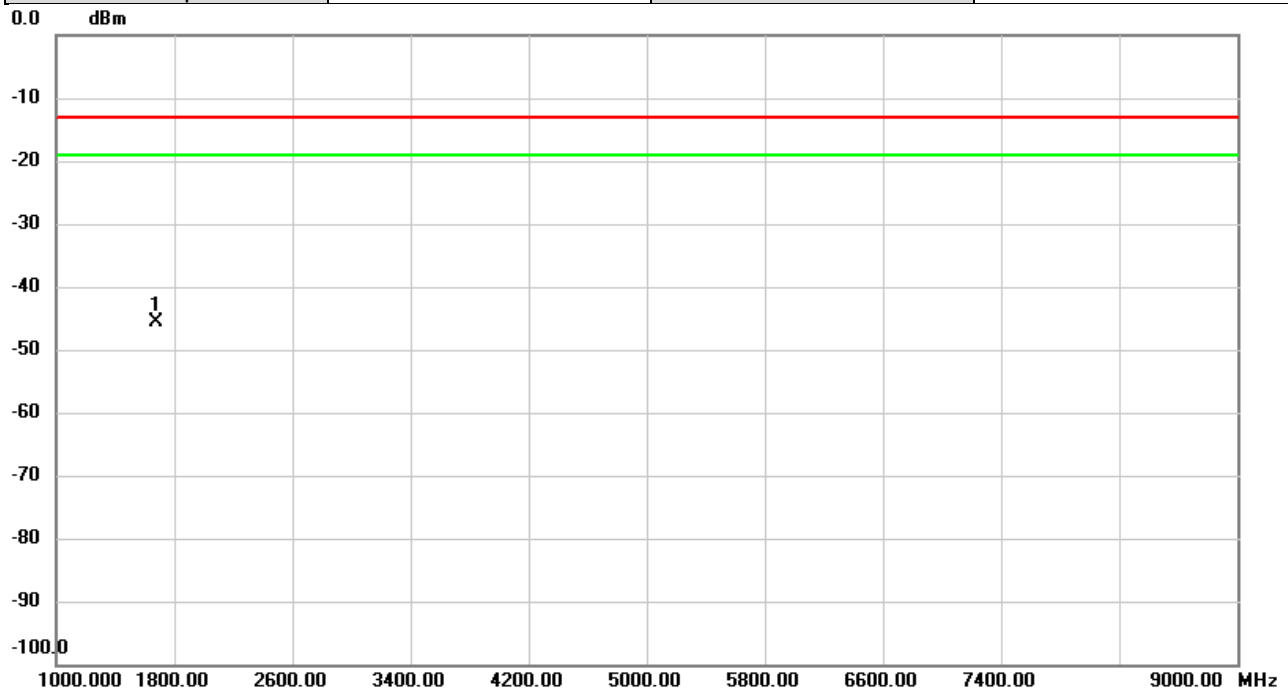


| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |         |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|---------|
|     |     | MHz      | dBm              | dB                | dBm              | dBm    | dB     | Detector | Comment |
| 1   | *   | 2509.500 | -39.12           | -4.42             | -43.54           | -13.00 | -30.54 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/8/30  |
| Test Channel | CH20525    | Polarization | Horizontal |
| Temp         | 23°C       | Hum.         | 58%        |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 1673.000 | -37.61        | -8.12          | -45.73      | -13.00 | -32.73 | peak     |         |

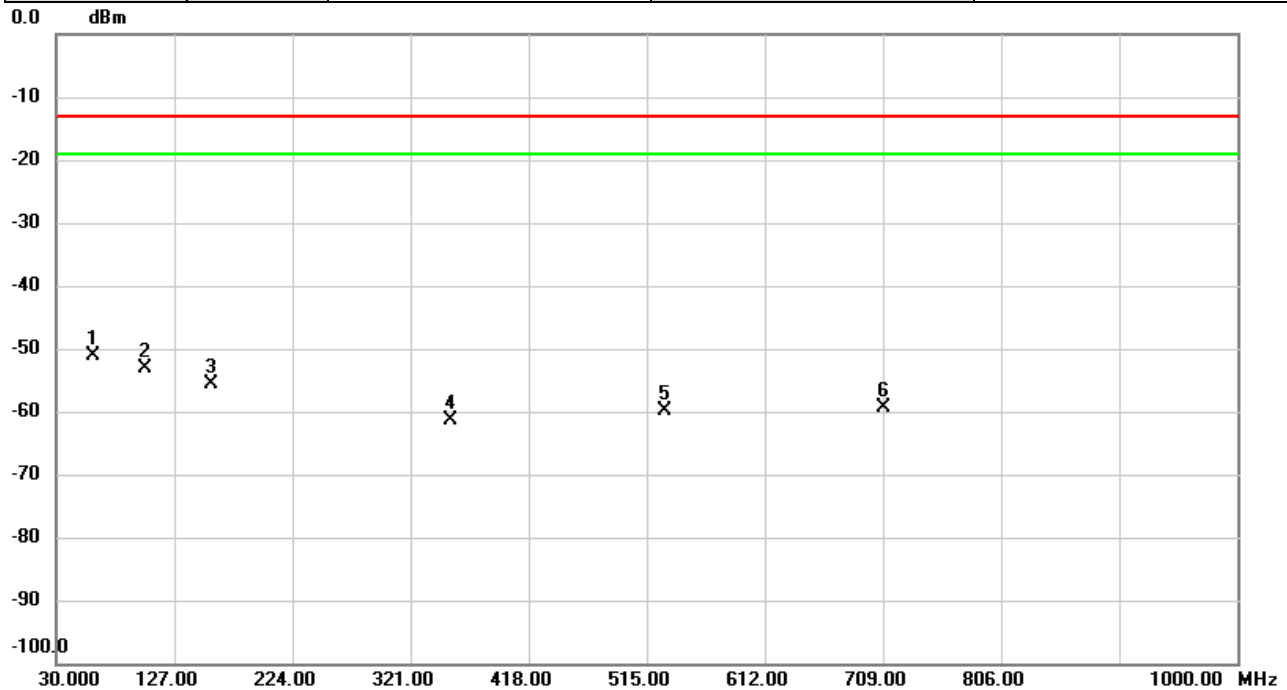
# REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

For Built-in antenna:

|              |              |              |          |
|--------------|--------------|--------------|----------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8 |
| Test Channel | CH 4407      | Polarization | Vertical |
| Temp         | 24°C         | Hum.         | 58%      |

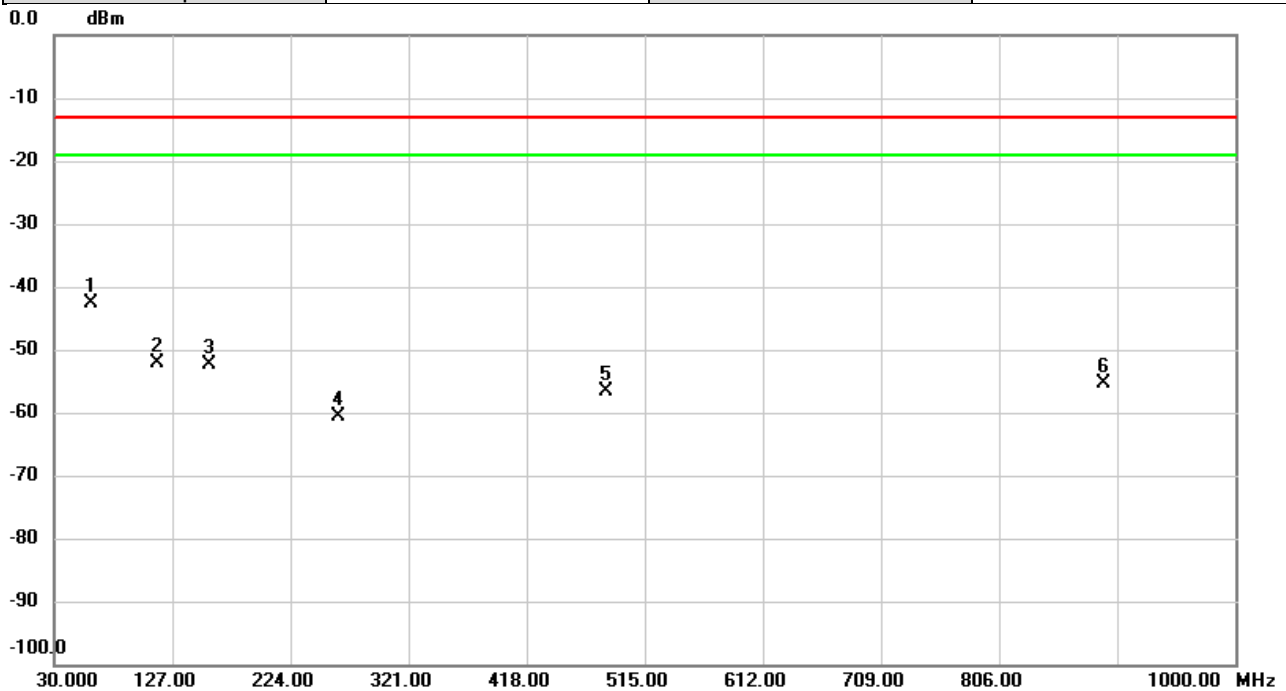


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     |          |         |
| 1   | *   | 60.0053  | -49.79        | -1.33          | -51.12       | -13.00 | -38.12 | peak     |         |
| 2   |     | 102.4913 | -53.87        | 0.66           | -53.21       | -13.00 | -40.21 | peak     |         |
| 3   |     | 157.7490 | -59.18        | 3.47           | -55.71       | -13.00 | -42.71 | peak     |         |
| 4   |     | 353.7537 | -67.71        | 6.32           | -61.39       | -13.00 | -48.39 | peak     |         |
| 5   |     | 529.3560 | -66.65        | 6.89           | -59.76       | -13.00 | -46.76 | peak     |         |
| 6   |     | 709.2263 | -71.77        | 12.46          | -59.31       | -13.00 | -46.31 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8   |
| Test Channel | CH 4407      | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

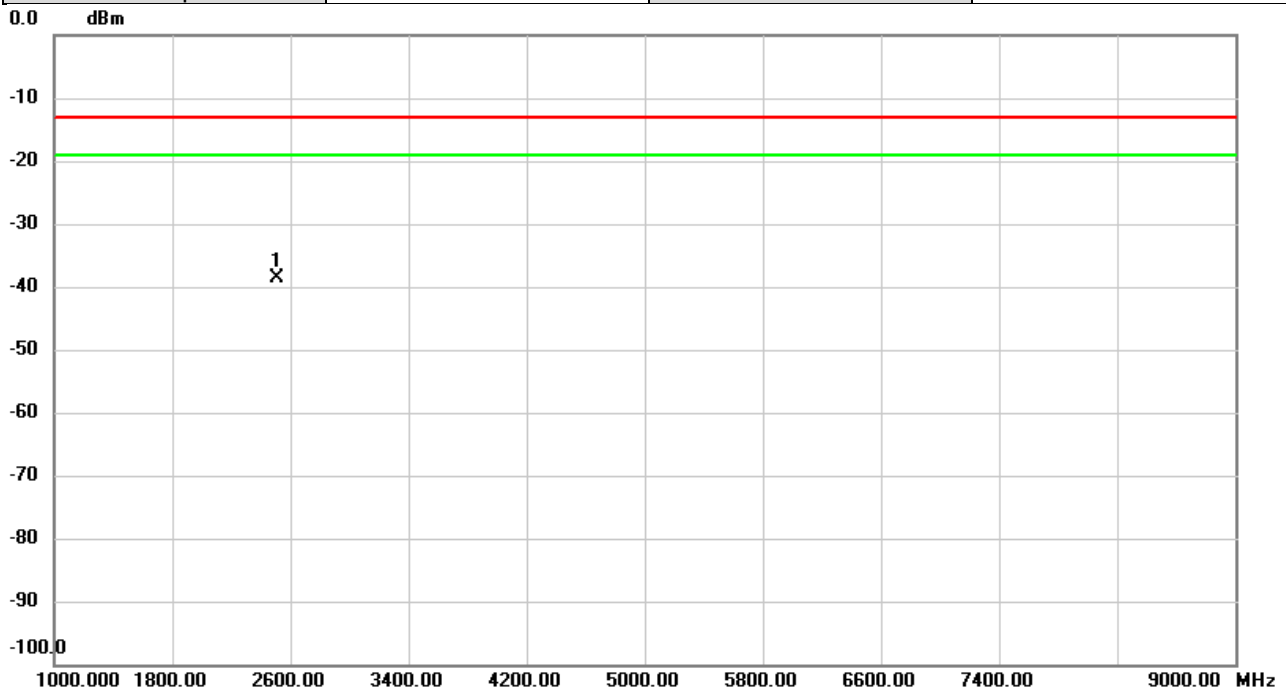


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     |          |         |
| 1   | *   | 60.0053  | -49.67        | 6.97           | -42.70       | -13.00 | -29.70 | peak     |         |
| 2   |     | 114.1636 | -55.12        | 3.00           | -52.12       | -13.00 | -39.12 | peak     |         |
| 3   |     | 157.6843 | -55.02        | 2.70           | -52.32       | -13.00 | -39.32 | peak     |         |
| 4   |     | 264.0285 | -60.37        | -0.26          | -60.63       | -13.00 | -47.63 | peak     |         |
| 5   |     | 483.4750 | -68.17        | 11.56          | -56.61       | -13.00 | -43.61 | peak     |         |
| 6   |     | 892.1036 | -71.10        | 15.83          | -55.27       | -13.00 | -42.27 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |          |
|--------------|--------------|--------------|----------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8 |
| Test Channel | CH 4407      | Polarization | Vertical |
| Temp         | 24°C         | Hum.         | 58%      |

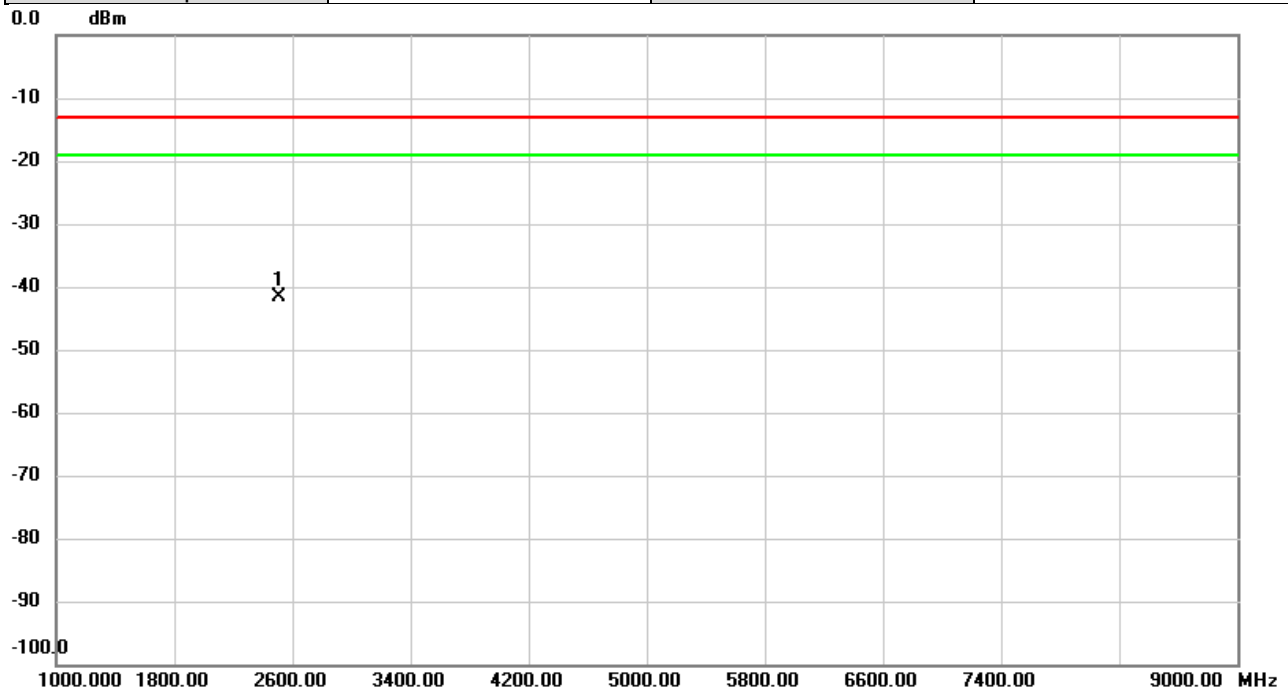


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   | *   | 2513.333 | -34.44        | -4.21          | -38.65      | -13.00 | -25.65 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2021/5/8   |
| Test Channel | CH 4407      | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

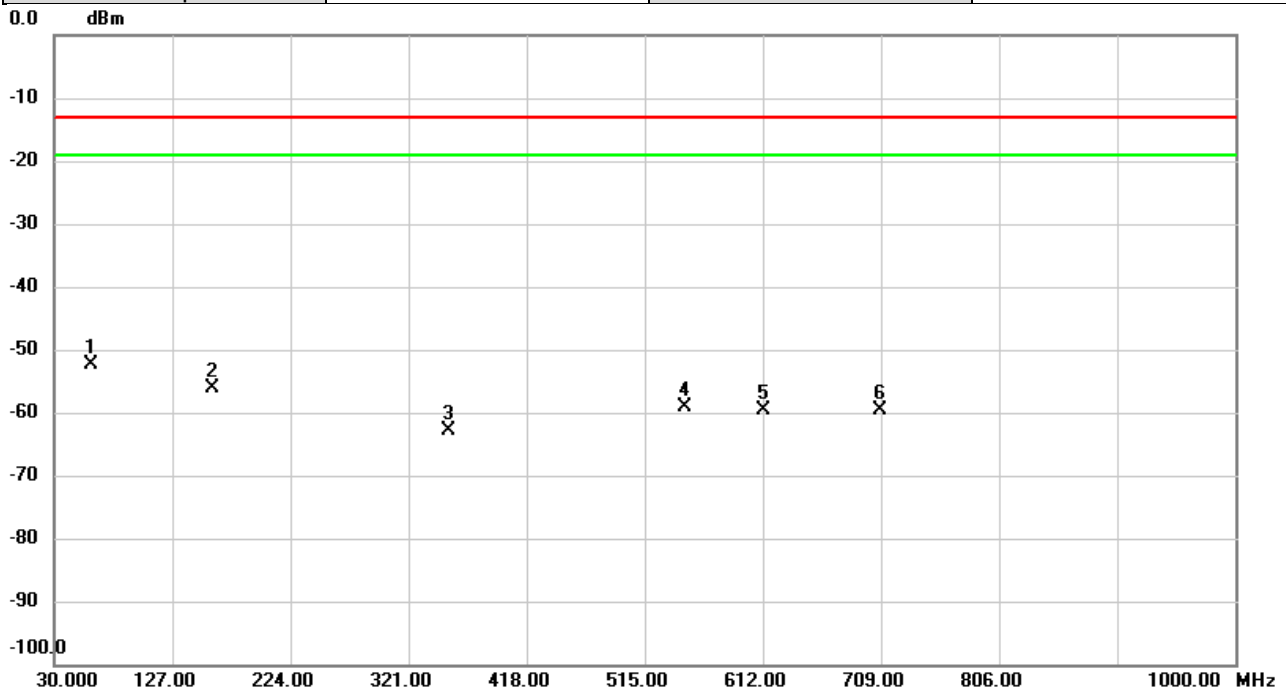


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   | *   | 2513.333 | -37.09        | -4.44          | -41.53      | -13.00 | -28.53 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |          |
|--------------|------------|--------------|----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8 |
| Test Channel | CH 20525   | Polarization | Vertical |
| Temp         | 24°C       | Hum.         | 58%      |

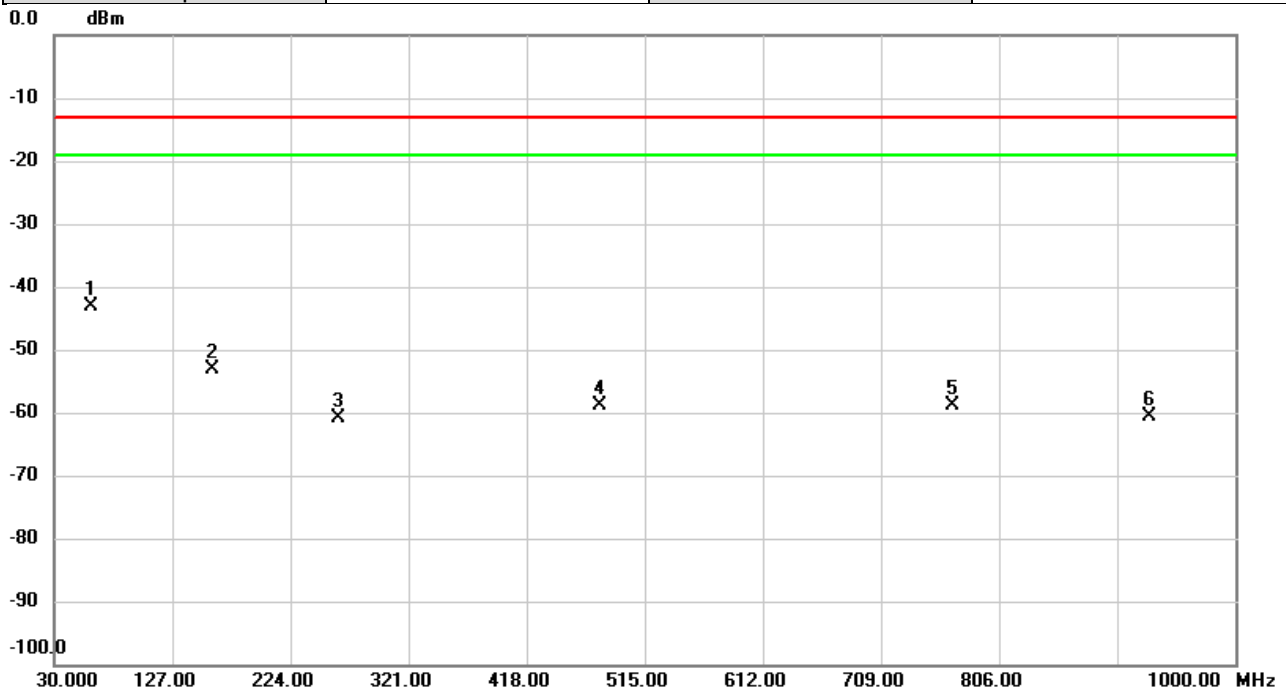


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | Detector | Comment |
| 1   | *   | 60.0053  | -51.06        | -1.33          | -52.39       | -13.00 | -39.39 | peak     |         |
| 2   |     | 160.0770 | -59.81        | 3.57           | -56.24       | -13.00 | -43.24 | peak     |         |
| 3   |     | 354.3680 | -69.04        | 6.27           | -62.77       | -13.00 | -49.77 | peak     |         |
| 4   |     | 548.1740 | -67.94        | 8.83           | -59.11       | -13.00 | -46.11 | peak     |         |
| 5   |     | 613.0993 | -71.85        | 12.29          | -59.56       | -13.00 | -46.56 | peak     |         |
| 6   |     | 708.3210 | -72.22        | 12.48          | -59.74       | -13.00 | -46.74 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8   |
| Test Channel | CH 20525   | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |

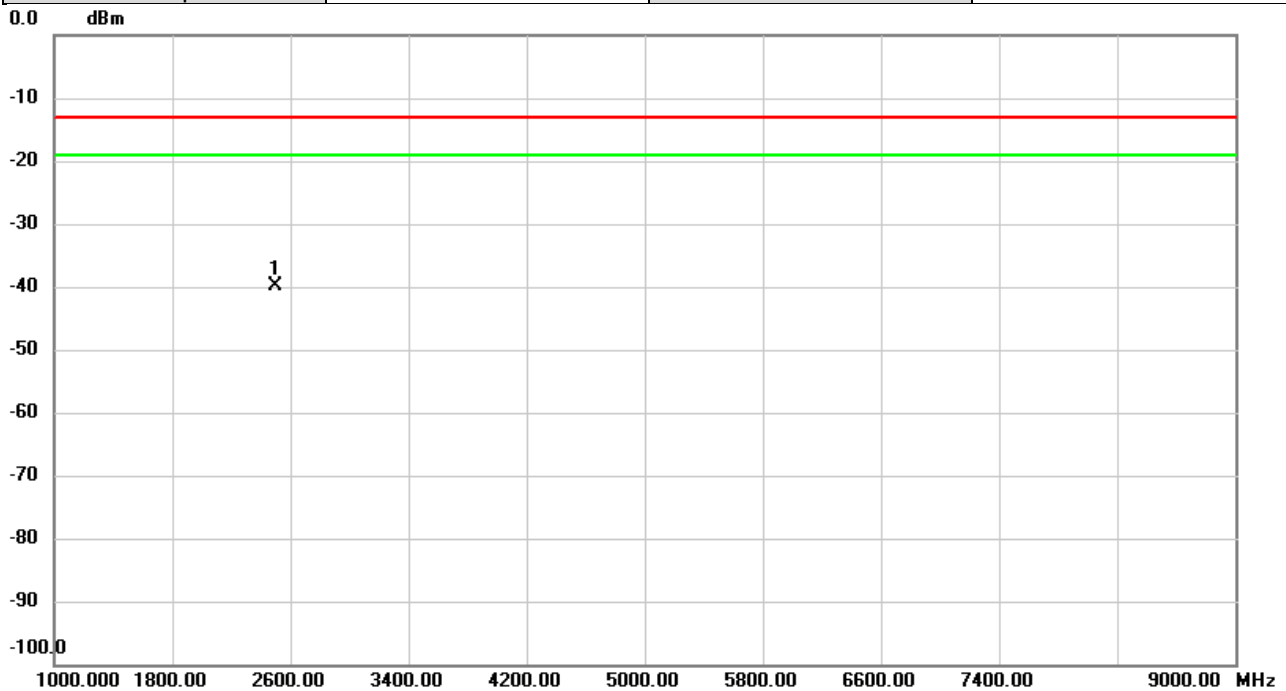


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   | *   | 60.0376  | -50.11        | 6.96           | -43.15      | -13.00 | -30.15 | peak     |         |
| 2   |     | 159.9476 | -55.78        | 2.64           | -53.14      | -13.00 | -40.14 | peak     |         |
| 3   |     | 263.9640 | -60.50        | -0.26          | -60.76      | -13.00 | -47.76 | peak     |         |
| 4   |     | 478.5603 | -70.58        | 11.77          | -58.81      | -13.00 | -45.81 | peak     |         |
| 5   |     | 768.0730 | -72.49        | 13.64          | -58.85      | -13.00 | -45.85 | peak     |         |
| 6   |     | 929.9336 | -74.71        | 14.00          | -60.71      | -13.00 | -47.71 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |          |
|--------------|------------|--------------|----------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8 |
| Test Channel | CH 20525   | Polarization | Vertical |
| Temp         | 24°C       | Hum.         | 58%      |

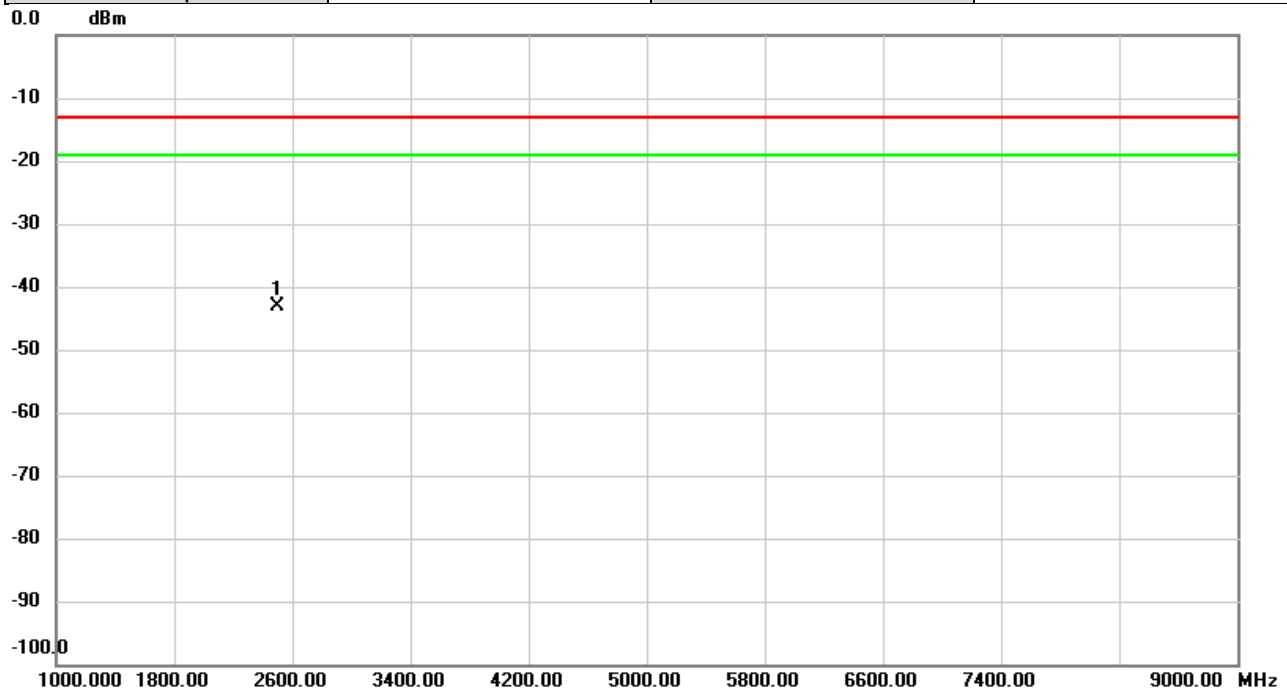


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   | *   | 2496.267 | -35.58        | -4.35          | -39.93      | -13.00 | -26.93 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2021/5/8   |
| Test Channel | CH 20525   | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |



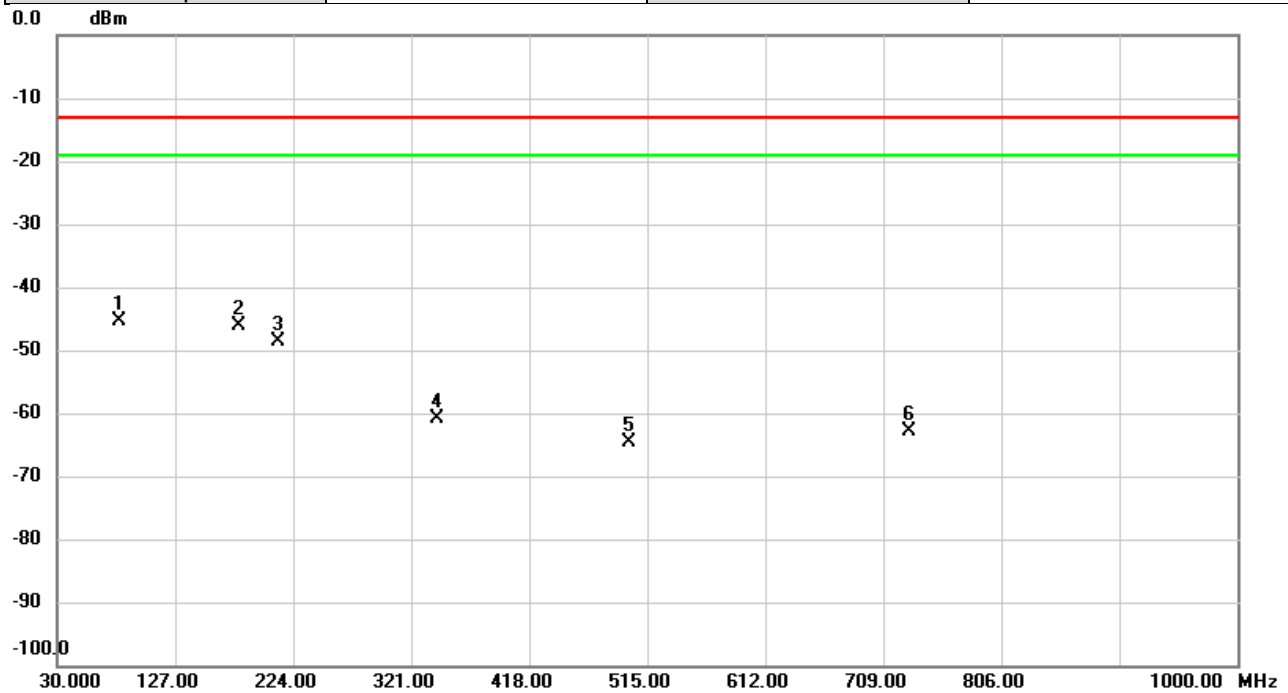
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 2496.267 | -38.48        | -4.70          | -43.18      | -13.00 | -30.18 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## Spot check test:

|              |              |              |           |
|--------------|--------------|--------------|-----------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24 |
| Test Channel | CH4183       | Polarization | Vertical  |
| Temp         | 24°C         | Hum.         | 58%       |

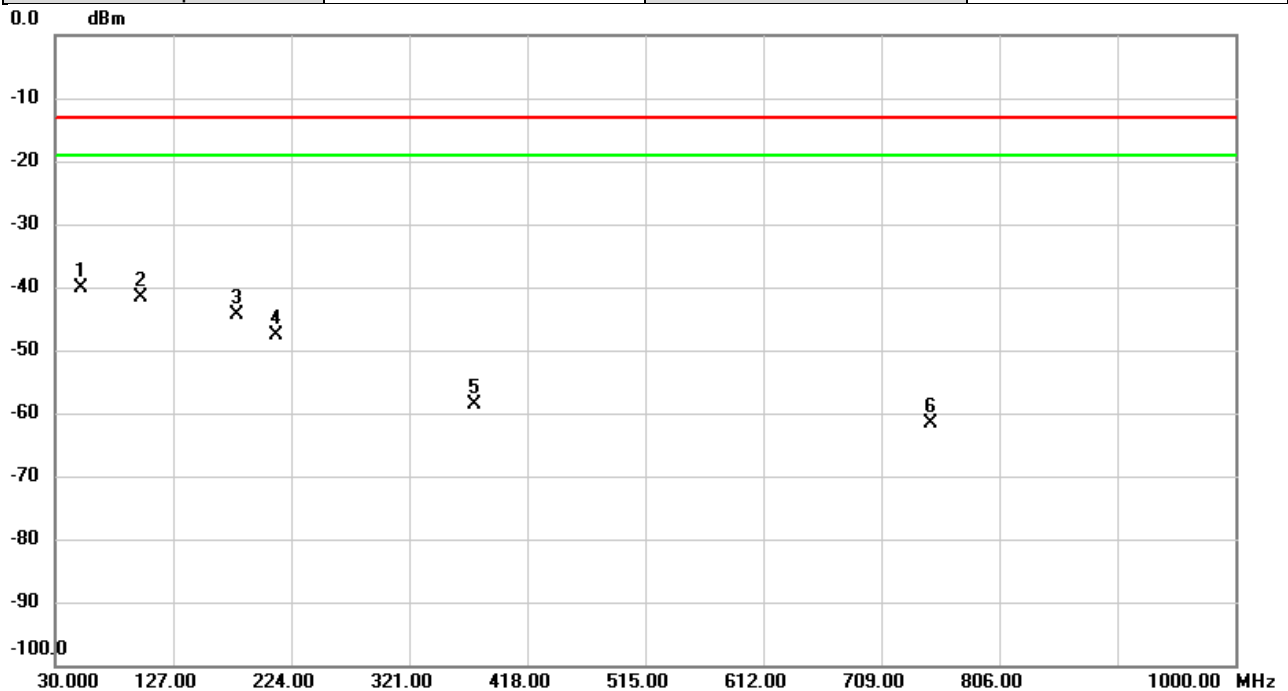


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin | Detector | Comment |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     |          |         |
| 1   | *   | 81.5717  | -62.52        | 17.19          | -45.33      | -13.00 | -32.33 | peak     |         |
| 2   |     | 179.3477 | -60.84        | 14.66          | -46.18      | -13.00 | -33.18 | peak     |         |
| 3   |     | 212.1013 | -60.43        | 11.73          | -48.70      | -13.00 | -35.70 | peak     |         |
| 4   |     | 342.5663 | -69.78        | 8.94           | -60.84      | -13.00 | -47.84 | peak     |         |
| 5   |     | 499.9973 | -73.25        | 8.52           | -64.73      | -13.00 | -51.73 | peak     |         |
| 6   |     | 729.9843 | -73.07        | 10.12          | -62.95      | -13.00 | -49.95 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24  |
| Test Channel | CH4183       | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |



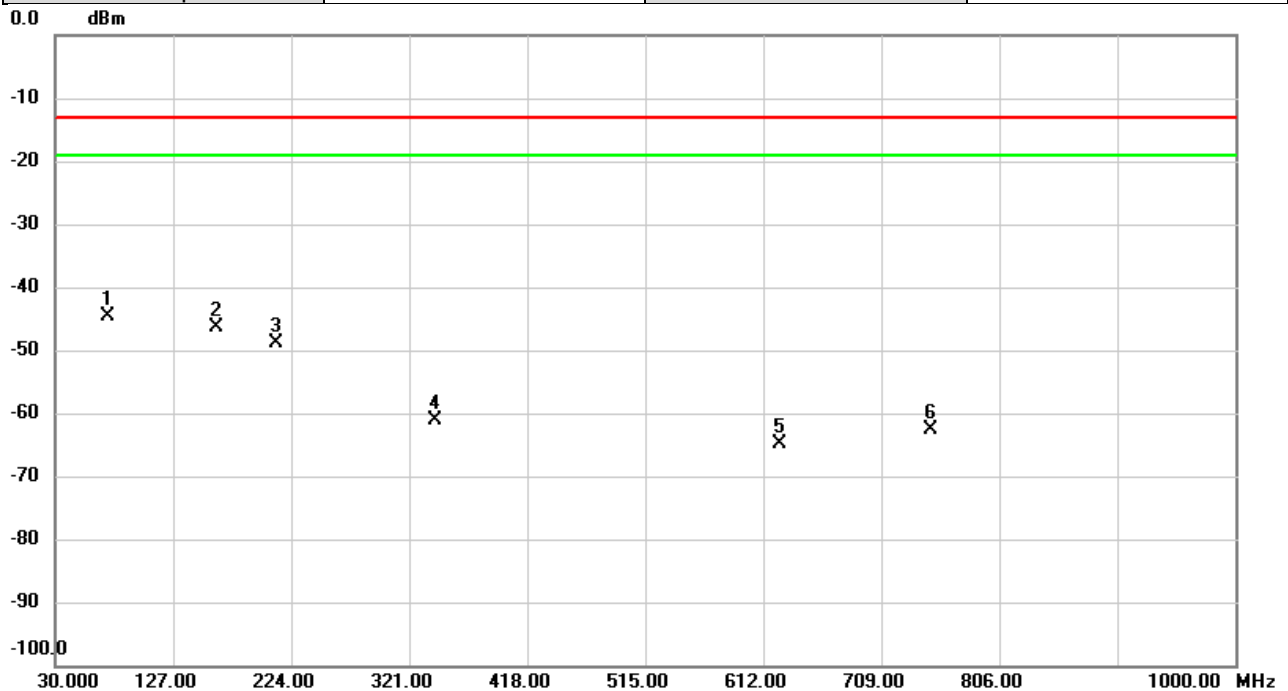
| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | Detector | Comment |
| 1   | *   | 50.9520  | -68.38        | 28.19          | -40.19       | -13.00 | -27.19 | peak     |         |
| 2   |     | 99.9047  | -56.26        | 14.62          | -41.64       | -13.00 | -28.64 | peak     |         |
| 3   |     | 179.4447 | -55.25        | 10.81          | -44.44       | -13.00 | -31.44 | peak     |         |
| 4   |     | 212.1013 | -53.75        | 6.16           | -47.59       | -13.00 | -34.59 | peak     |         |
| 5   |     | 374.9643 | -67.17        | 8.65           | -58.52       | -13.00 | -45.52 | peak     |         |
| 6   |     | 749.9663 | -70.92        | 9.21           | -61.71       | -13.00 | -48.71 | peak     |         |

## REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24 |
| Test Channel | CH20525    | Polarization | Vertical  |
| Temp         | 24°C       | Hum.         | 58%       |

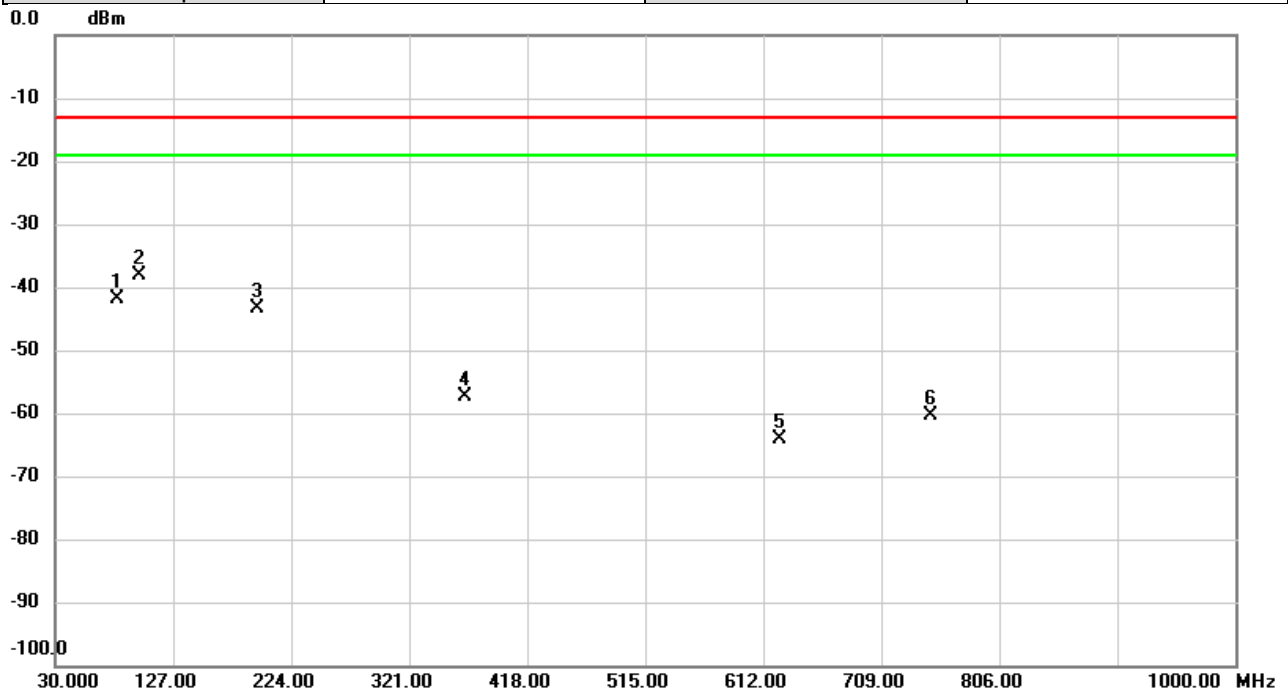


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | Detector | Comment |
| 1   | *   | 72.7770  | -61.31        | 16.70          | -44.61       | -13.00 | -31.61 | peak     |         |
| 2   |     | 163.0193 | -62.51        | 16.16          | -46.35       | -13.00 | -33.35 | peak     |         |
| 3   |     | 212.0690 | -60.58        | 11.74          | -48.84       | -13.00 | -35.84 | peak     |         |
| 4   |     | 342.4370 | -69.94        | 8.94           | -61.00       | -13.00 | -48.00 | peak     |         |
| 5   |     | 624.9657 | -75.24        | 10.29          | -64.95       | -13.00 | -51.95 | peak     |         |
| 6   |     | 749.9986 | -72.38        | 9.84           | -62.54       | -13.00 | -49.54 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24  |
| Test Channel | CH20525    | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |

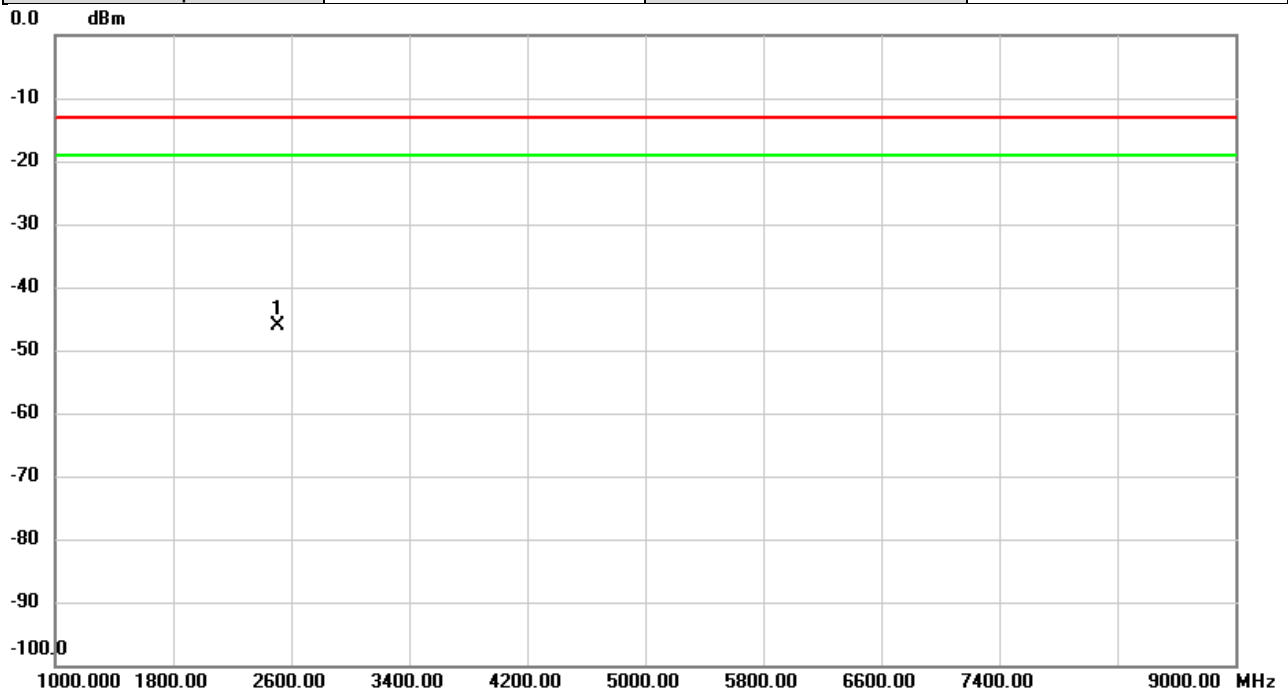


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | Detector | Comment |
| 1   |     | 81.5393  | -59.03        | 17.19          | -41.84       | -13.00 | -28.84 | peak     |         |
| 2   | *   | 99.1287  | -55.02        | 16.96          | -38.06       | -13.00 | -25.06 | peak     |         |
| 3   |     | 195.7407 | -55.77        | 12.41          | -43.36       | -13.00 | -30.36 | peak     |         |
| 4   |     | 366.7840 | -66.08        | 8.78           | -57.30       | -13.00 | -44.30 | peak     |         |
| 5   |     | 624.9980 | -74.33        | 10.29          | -64.04       | -13.00 | -51.04 | peak     |         |
| 6   |     | 749.9986 | -70.32        | 9.84           | -60.48       | -13.00 | -47.48 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |           |
|--------------|--------------|--------------|-----------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24 |
| Test Channel | CH4183       | Polarization | Vertical  |
| Temp         | 24°C         | Hum.         | 58%       |

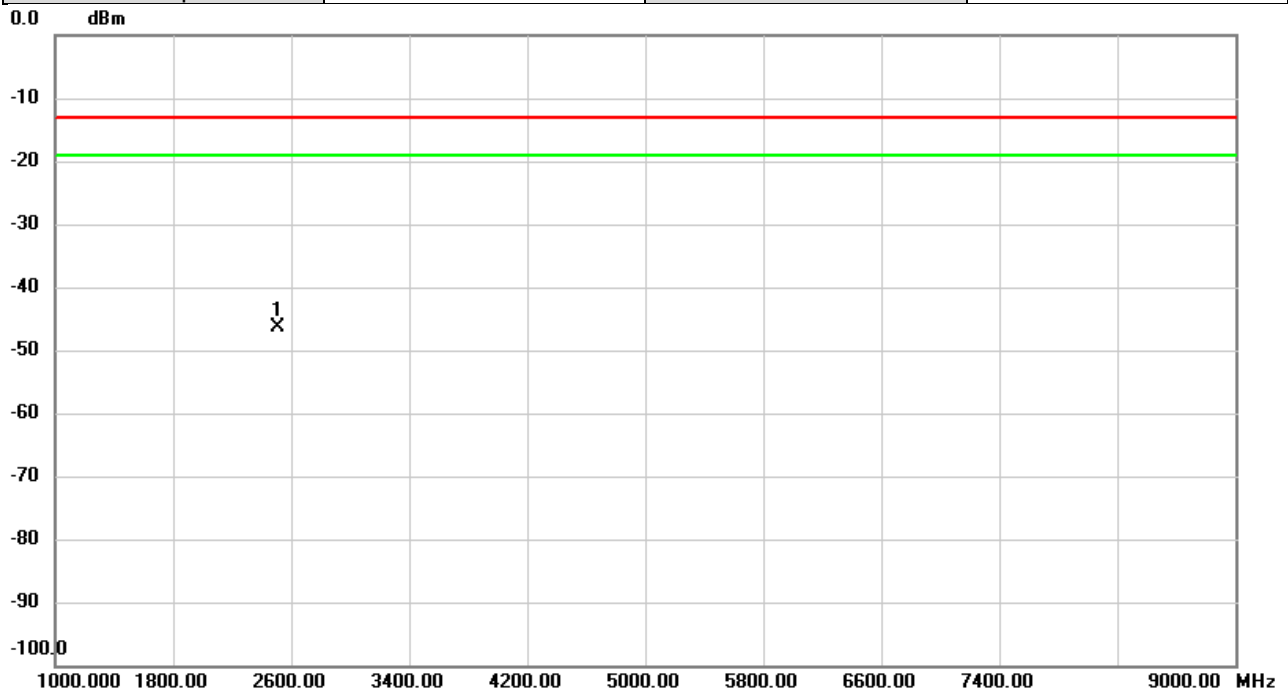


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 2512.533 | -52.59        | 6.38           | -46.21      | -13.00 | -33.21 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |              |              |            |
|--------------|--------------|--------------|------------|
| Test Mode    | WCDMA Band V | Test Date    | 2022/8/24  |
| Test Channel | CH4183       | Polarization | Horizontal |
| Temp         | 24°C         | Hum.         | 58%        |

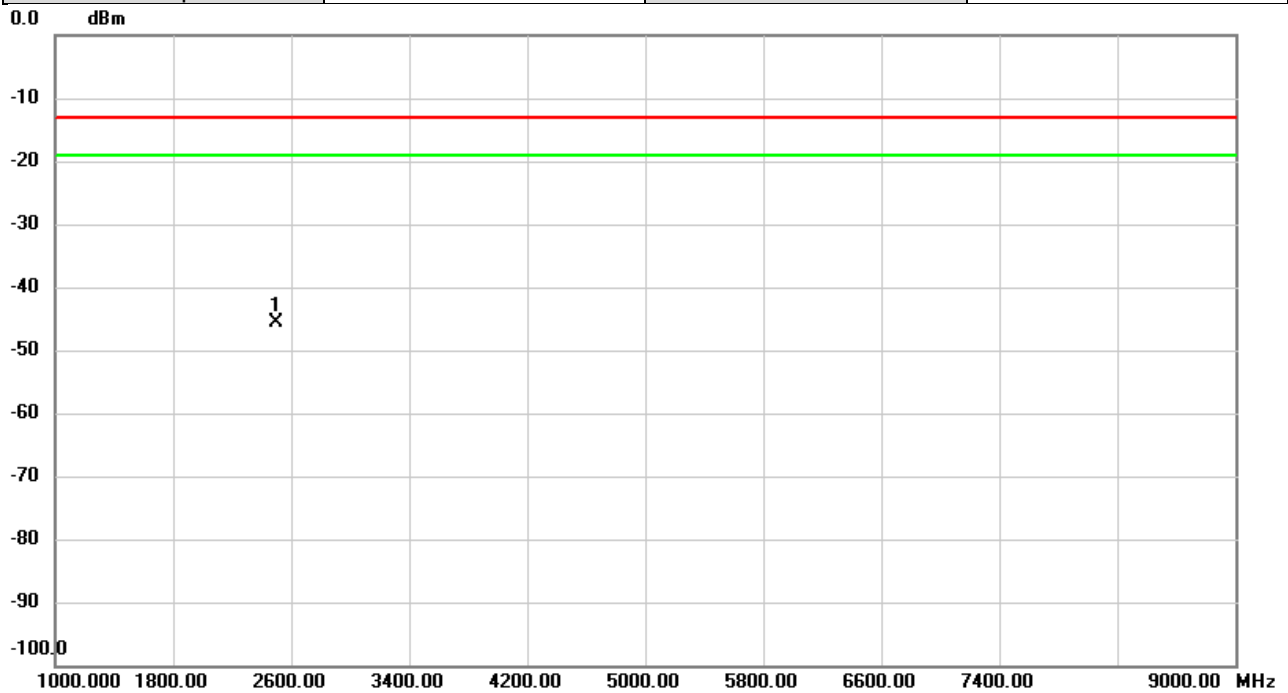


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 2512.267 | -52.80        | 6.37           | -46.43      | -13.00 | -33.43 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |           |
|--------------|------------|--------------|-----------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24 |
| Test Channel | CH20525    | Polarization | Vertical  |
| Temp         | 24°C       | Hum.         | 58%       |

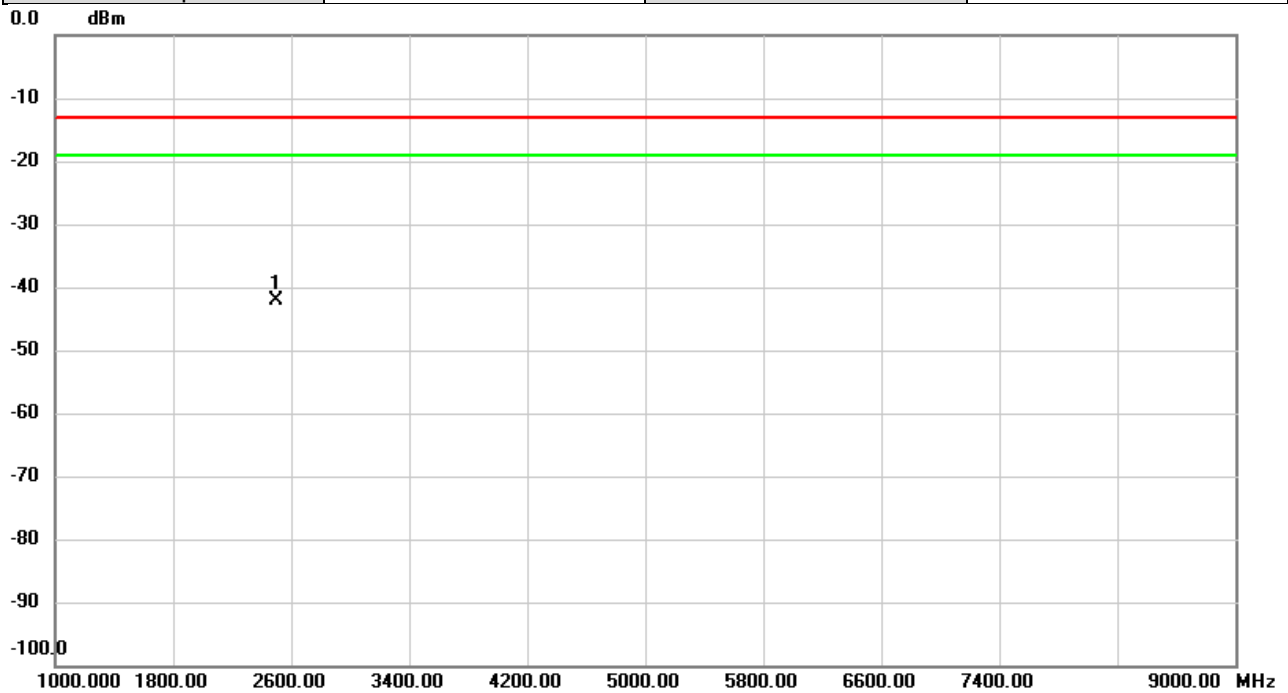


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 2496.388 | -51.92        | 6.32           | -45.60      | -13.00 | -32.60 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|              |            |              |            |
|--------------|------------|--------------|------------|
| Test Mode    | LTE Band 5 | Test Date    | 2022/8/24  |
| Test Channel | CH20525    | Polarization | Horizontal |
| Temp         | 24°C       | Hum.         | 58%        |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 2496.454 | -48.26        | 6.23           | -42.03      | -13.00 | -29.03 | peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX E BAND EDGE**

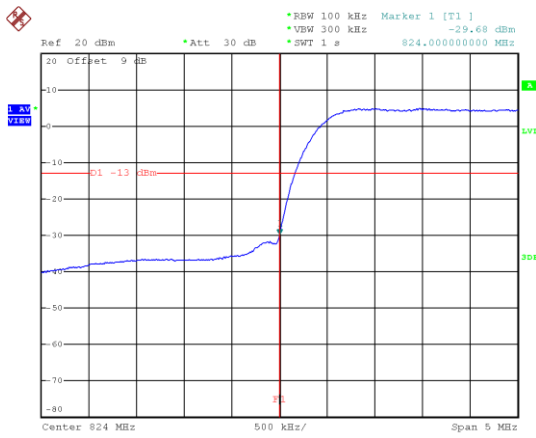
## WCDMA Band V\_WCDMA Spectrum Plot

Channel

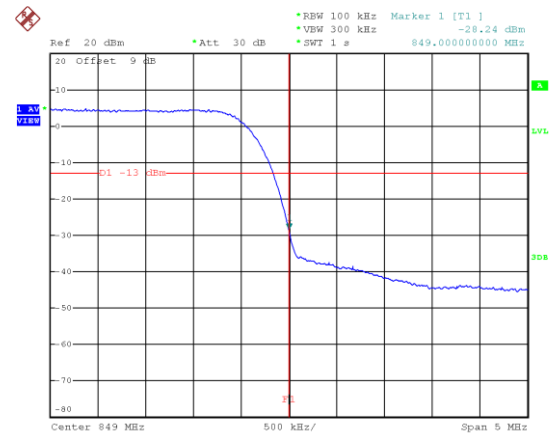
4132

Channel

4233



Date: 21.APR.2021 20:53:02



Date: 21.APR.2021 20:54:58

## LTE Band 5\_1.4M Spectrum Plot

1RB#0

1RB#5

Channel

20407

Channel

20643



6RB#0

Channel

20407

Channel

20643



## LTE Band 5\_3M Spectrum Plot

1RB#0

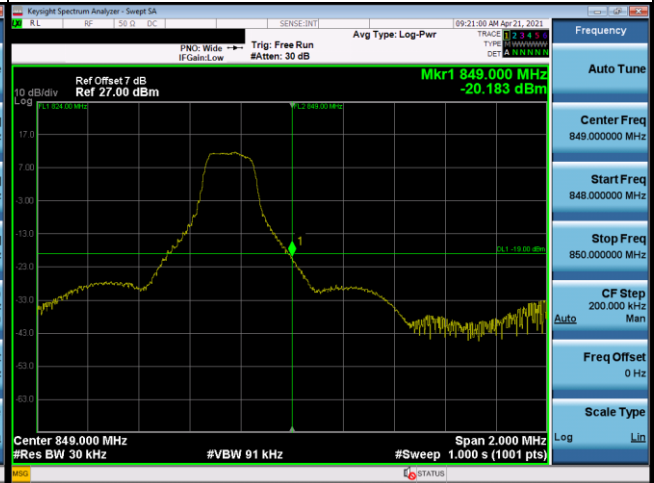
1RB#14

Channel

20415

Channel

20635



15RB#0

Channel

20415

Channel

20635

