

# FCC Radio Test Report

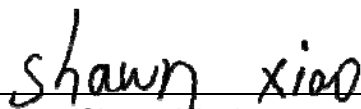
## FCC ID: QISDUB-LX3

This report concerns (check one): ☒ Original Grant ☐ Class I Change ☐ Class II Change

Project No. : 1811C039  
Equipment : Smart Phone  
Model Name : DUB-LX3  
Series Model : N/A  
Applicant : Huawei Technologies Co., Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt : Oct. 23, 2018  
Date of Test : Oct. 24, 2018 ~ Nov. 13, 2018  
Issued Date : Nov. 27, 2018  
Tested by : BTL Inc.

Technical Manager :

  
(Shawn Xiao)

Authorized Signatory :

  
(Steven Lu)

# B T L I N C .

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Certificate #5123.02

### **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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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 Guide 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, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements 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.

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**REPORT ISSUED HISTORY**

| Report Version | Description                                                           | Issued Date   |
|----------------|-----------------------------------------------------------------------|---------------|
| R00            | Original Issue.                                                       | Nov. 16, 2018 |
| R01            | Updated the software version which does not affect the test results.  | Nov. 23, 2018 |
| R02            | Updated the accessory devices which does not affect the test results. | Nov. 27, 2018 |

## 1. CERTIFICATION

Equipment : Smart Phone  
Brand Name : HUAWEI  
Model Name : DUB-LX3  
Series Model : N/A  
Applicant : Huawei Technologies Co., Ltd.  
Manufacturer : Huawei Technologies Co., Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,  
Bantian, Longgang District, Shenzhen, 518129, P.R.C  
Factory : Huawei Technologies Co., Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,  
Bantian, Longgang District, Shenzhen, 518129, P.R.C  
Date of Test : Oct. 24, 2018 ~ Nov. 13, 2018  
Test Sample : Engineering Sample No.: D181009545  
Standard(s) : 47 CFR FCC Part 27 Subpart L  
47 CFR FCC Part 27 Subpart H  
47 CFR FCC Part 2 & ANSI/TIA-603-D-2010

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-6-1811C039) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO-17025 quality assessment standard and technical standard(s).

**Test results included in this report is only for the WCDMA Band IV, LTE Band 4 & 7 Radiated Spurious Emissions parts.**

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| FCC Part 27 Subpart L, H & Part 2      |                             |          |           |
|----------------------------------------|-----------------------------|----------|-----------|
| Standard(s) Section                    | Test Item                   | Judgment | Tested By |
| 2.1053 / 27.53(h)<br>2.1051 & 27.53(l) | Radiated Spurious Emissions | PASS     | Paul Li   |

Note:

(1) "N/A" denotes test is not applicable to this device.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 854385

BTL's designation number for FCC: CN5020

## 2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor)  $k=1.96$  or  $k=2$  (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %,  $U=2 \times U_c(y)$ .

The BTL measurement uncertainty as below table:

### A. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | Ant.<br>H / V | U,(dB) |
|-----------|--------|-----------------------------|---------------|--------|
| DG-CB03   | CISPR  | 9KHz ~ 30MHz                | V             | 3.79   |
|           |        | 9KHz ~ 30MHz                | H             | 3.57   |
|           |        | 30MHz ~ 200MHz              | V             | 3.82   |
|           |        | 30MHz ~ 200MHz              | H             | 3.78   |
|           |        | 200MHz ~ 1,000MHz           | V             | 4.10   |
|           |        | 200MHz ~ 1,000MHz           | H             | 4.06   |

| Test Site | Method | Measurement Frequency Range | Ant.<br>H / V | U,(dB) |
|-----------|--------|-----------------------------|---------------|--------|
| DG-CB03   | CISPR  | 1GHz ~ 18GHz                | V             | 3.12   |
|           |        | 1GHz ~ 18GHz                | H             | 3.68   |
|           |        | 18GHz ~ 40GHz               | V             | 4.15   |
|           |        | 18GHz ~ 40GHz               | H             | 4.14   |

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

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                     |                                                                                                       |                                    |
|---------------------|-------------------------------------------------------------------------------------------------------|------------------------------------|
| Equipment           | Smart Phone                                                                                           |                                    |
| Brand Name          | HUAWEI                                                                                                |                                    |
| Model Name          | DUB-LX3                                                                                               |                                    |
| Series Model        | N/A                                                                                                   |                                    |
| Model Difference(s) | N/A                                                                                                   |                                    |
| Modulation Type     | WCDMA                                                                                                 | UL: BPSK<br>DL: QPSK               |
|                     | WCDMA(HSDPA/HSUPA)                                                                                    | 16QAM                              |
|                     | LTE                                                                                                   | UL: QPSK; 16QAM<br>DL: QPSK; 16QAM |
| Operation Frequency | WCDMA Band IV                                                                                         | 1712.4 ~ 1752.6MHz                 |
|                     | LTE 4 (Channel Bandwidth: 1.4MHz)                                                                     | 1710.7 ~ 1754.3MHz                 |
|                     | LTE 4 (Channel Bandwidth: 3MHz)                                                                       | 1711.5 ~ 1753.5MHz                 |
|                     | LTE 4 (Channel Bandwidth: 5MHz)                                                                       | 1712.5 ~ 1752.5MHz                 |
|                     | LTE 4 (Channel Bandwidth: 10MHz)                                                                      | 1715.0 ~ 1750.0MHz                 |
|                     | LTE 4 (Channel Bandwidth: 15MHz)                                                                      | 1717.5 ~ 1747.5MHz                 |
|                     | LTE 4 (Channel Bandwidth: 20MHz)                                                                      | 1720.0 ~ 1745.0MHz                 |
|                     | LTE 7 (Channel Bandwidth: 5MHz)                                                                       | 2502.5 ~ 2567.5MHz                 |
|                     | LTE 7 (Channel Bandwidth: 10MHz)                                                                      | 2505.0 ~ 2565.0MHz                 |
|                     | LTE 7 (Channel Bandwidth: 15MHz)                                                                      | 2507.5 ~ 2562.5MHz                 |
|                     | LTE 7 (Channel Bandwidth: 20MHz)                                                                      | 2510.0 ~ 2560.0MHz                 |
| Antenna Type        | Internal Antenna                                                                                      |                                    |
| Antenna Gain        | WCDMA Band IV                                                                                         | -2.2 dBi                           |
|                     | LTE Band 4                                                                                            | -2.2 dBi                           |
|                     | LTE Band 7                                                                                            | 0.2 dBi                            |
| Software Version    | DUB-LX3 8.2.0.107(C900)                                                                               |                                    |
| Hardware Version    | HL3DUBM                                                                                               |                                    |
| IMEI No.            | Radiated                                                                                              | 863697040011057                    |
| Power Source        | 1# DC voltage supplied from AC/DC adapter.<br>2# Supplied from battery.<br>3# Supplied from USB port. |                                    |
| Power Rating        | 1# I/P: 100-240V<br>O/P: 5V <b>==</b> 2A<br>2# DC 3.82V, 3900mAh<br>3# DC 5V                          |                                    |

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT contains following accessory devices.

| Item    | Manufacturer                  | Factory                                | Model                                                                                                                        | Description                                                                                                   |
|---------|-------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Adapter | Huawei Technologies Co., Ltd. | SHENZHEN HUNTKEY ELECTRONICS CO., LTD. | HW-050200E01<br>HW-050200E02<br>HW-050200U01<br>HW-050200U02<br>HW-050200A01<br>HW-050200A02<br>HW-050200B01<br>HW-050200B02 | I/P:100-240V<br>O/P:5V  2A |
|         |                               | Dongguan Phitek Electronics CO.,Ltd.   | HW-050200E01<br>HW-050200E02<br>HW-050200U01<br>HW-050200U02<br>HW-050200A01<br>HW-050200A02<br>HW-050200B01                 |                                                                                                               |
|         |                               | HUIZHOU BYD ELECTRONIC CO., LTD.       | HW-050200E01<br>HW-050200E02<br>HW-050200U01<br>HW-050200U02<br>HW-050200A01<br>HW-050200A02<br>HW-050200B01<br>HW-050200B02 |                                                                                                               |
|         |                               | Salcomp (Shenzhen) CO., LTD.           | HW-050200E02<br>HW-050200U02<br>HW-050200A02<br>HW-050200B02                                                                 |                                                                                                               |
| Battery | Huawei Technologies Co., Ltd. | Huizhou Desay Battery Co., Ltd.        | HB406689ECW                                                                                                                  | DC 3.82V,<br>3900mAh                                                                                          |
|         |                               | SCUD (FUJIAN) Electronics Co., Ltd.    |                                                                                                                              |                                                                                                               |

| Item         | Manufacturer | Factory                                                 | Model                    | Description |
|--------------|--------------|---------------------------------------------------------|--------------------------|-------------|
| Earphone     | -            | Jiangxi Lianchuang<br>Hongsheng<br>Electronic Co. ,LTD. | MEND1532B528A02          | -           |
|              |              |                                                         | MEMD1532B528000          |             |
|              |              | Boluo County<br>Quancheng<br>Electronic Co.,ltd.        | 1293-3283-3.5mm-322      |             |
|              |              |                                                         | 1293#+3283#<br>3.5MM-150 |             |
| USB<br>Cable | -            | HONGLIN<br>TECHNOLOGY CO.,<br>LTD.                      | 130-26669                | -           |
|              |              | FOXCONN<br>INTERCONNECT<br>TECHNOLOGY<br>LIMITED        | CUBB01M-HC304-DH         |             |
|              |              | NingBo Broad<br>Telecommunication<br>Co., Ltd.          | WA0001                   |             |
|              |              | LuXshare                                                | L99U2017-CS-H            |             |

### 3.2 DESCRIPTION OF TEST MODES AND TEST CONDITION

Following channel(s) was (were) selected for the final test as listed below:

| WCDMA Band IV     |                   |                |       |
|-------------------|-------------------|----------------|-------|
| Test Item         | Available Channel | Tested Channel | Mode  |
| Radiated Emission | 1312 to 1513      | 1413           | WCDMA |

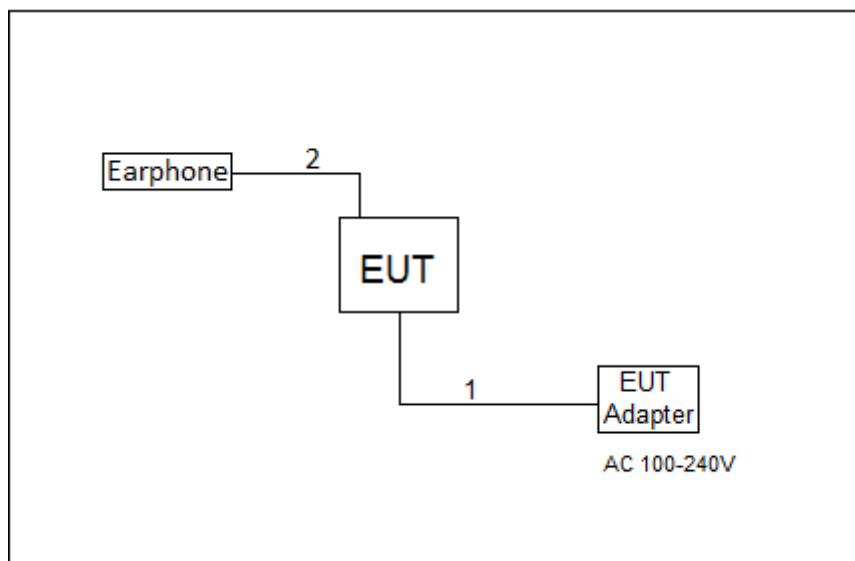
| LTE BAND 4                 |                   |                |                   |            |                    |
|----------------------------|-------------------|----------------|-------------------|------------|--------------------|
| Test Item                  | Available Channel | Tested Channel | Channel Bandwidth | Modulation | Mode               |
| Radiated Spurious Emission | 19957 to 20393    | 20175          | 1.4MHz            | QPSK       | 1 RB / 0 RB Offset |
|                            | 19975 to 20375    | 20175          | 5MHz              | QPSK       | 1 RB / 0 RB Offset |
|                            | 20050 to 20300    | 20175          | 20MHz             | QPSK       | 1 RB / 0 RB Offset |

| LTE BAND 7                 |                   |                |                   |            |                    |
|----------------------------|-------------------|----------------|-------------------|------------|--------------------|
| Test Item                  | Available Channel | Tested Channel | Channel Bandwidth | Modulation | Mode               |
| Radiated Spurious Emission | 20775 to 21425    | 21100          | 5MHz              | QPSK       | 1 RB / 0 RB Offset |
|                            | 20850 to 21350    | 21100          | 20MHz             | QPSK       | 1 RB / 0 RB Offset |

#### EUT TEST CONDITIONS:

| Test Item         | Environmental Conditions | Test Voltage |
|-------------------|--------------------------|--------------|
| Radiated Emission | 23°C, 58%RH              | AC 120V/60Hz |

### 3.3 BLOCK DIGRAM SHOWING THECONFIGURATIONOFSYSTEMTESTED FOR RADIATED



### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID | Series No. |
|------|-----------|-----------|----------------|--------|------------|
| -    | -         | -         | -              | -      | -          |

| Item | Shielded Type | Ferrite Core | Length | Note        |
|------|---------------|--------------|--------|-------------|
| 1    | NO            | NO           | 1.2m   | DC Cable    |
| 2    | NO            | NO           | 1.0m   | Audio Cable |

## 4. TEST RESULT

### 4.1 RADIATED EMISSIONS MEASUREMENT

#### 4.1.1 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. (LTE 4)

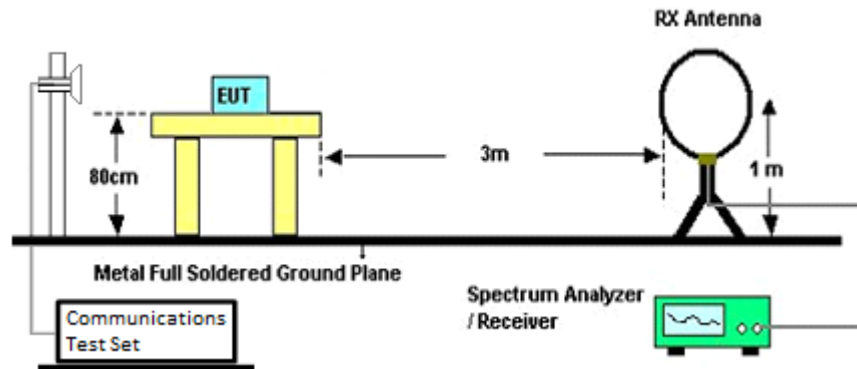
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB. The emission limit equal to -25dBm. (LTE 7)

#### 4.1.2 TEST PROCEDURES

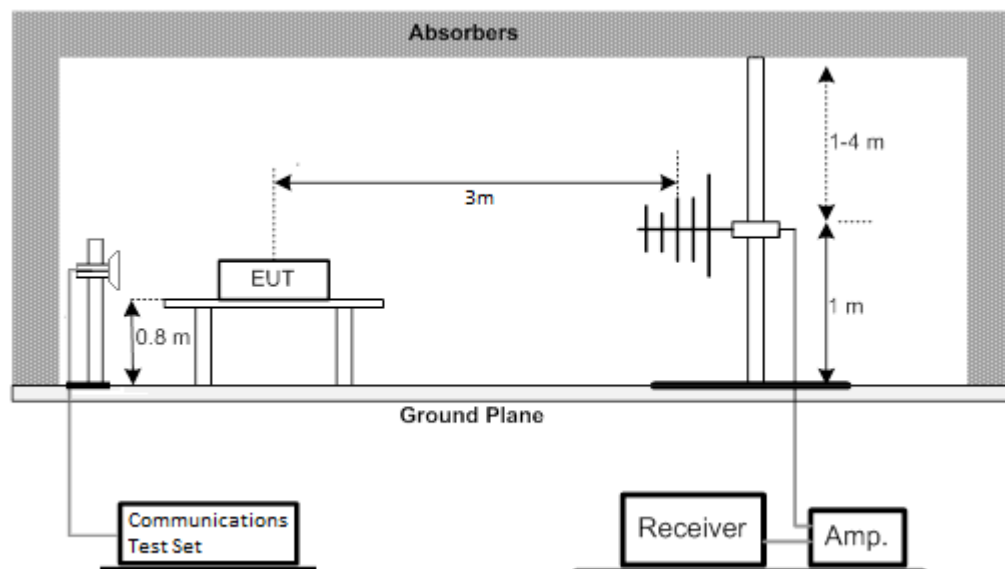
1. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
2. 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
3. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

### 4.1.3 TESTSETUP LAYOUT

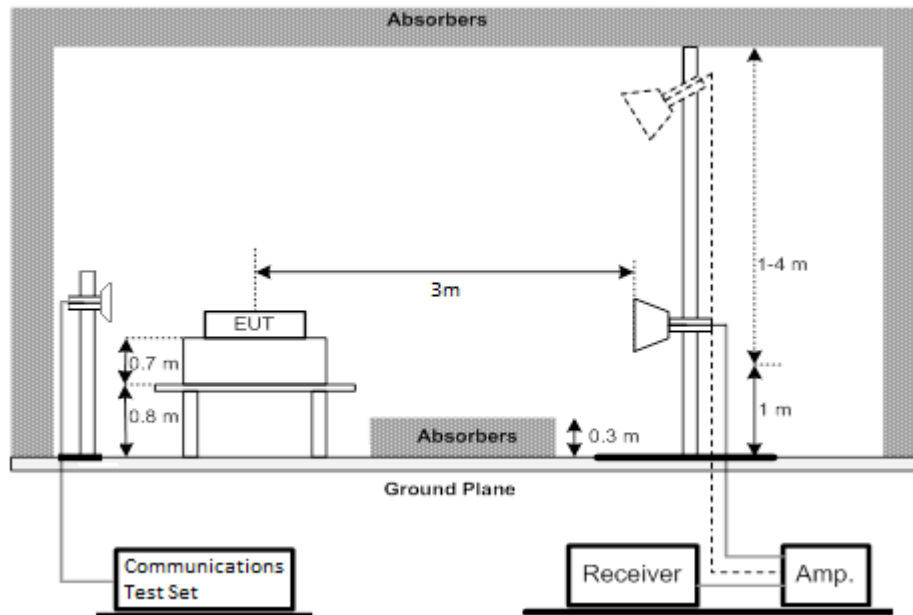
#### Below 30MHz



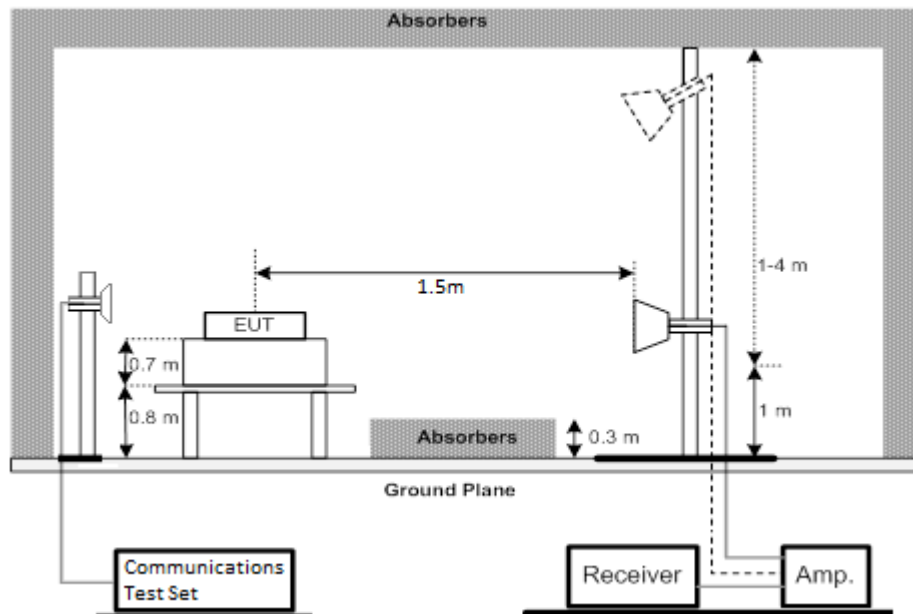
#### 30MHz to 1GHz



### 1GHz to 18GHz



### Above 18GHz



#### **4.1.4 TEST RESULTS (9KHZ TO 30MHZ)**

Please refer to the Appendix A.

Remark:

(1) All adapters had been pre-test and in this report only recorded the worst case.

#### **4.1.5 TEST RESULTS (30MHZ TO 1000MHZ)**

Please refer to the Appendix B.

Remark:

(1) All adapters had been pre-test and in this report only recorded the worst case.

#### **4.1.6 TEST RESULTS (ABOVE 1000MHZ)**

Please refer to the Appendix C.

## 5. LIST OF MEASUREMENT EQUIPMENTS

| Radiated Emission Measurement |                                     |                             |                                   |               |                  |
|-------------------------------|-------------------------------------|-----------------------------|-----------------------------------|---------------|------------------|
| Item                          | Kind of Equipment                   | Manufacturer                | Type No.                          | Serial No.    | Calibrated until |
| 1                             | Antenna                             | Schwarbeck                  | VULB9160                          | 9160-3232     | Mar. 11, 2019    |
| 2                             | Amplifier                           | Agilent                     | 8449B                             | 3008A02274    | Mar. 11, 2019    |
| 3                             | Amplifier                           | HP                          | 8447D                             | 2944A09673    | Aug. 11, 2019    |
| 4                             | HighPass Filter                     | Wairwright Instruments Gmbh | WHK 1.5/15G-10ST                  | 11            | Mar. 11, 2019    |
| 5                             | Band Reject Filter                  | Wairwright Instruments Gmbh | WRCG 1710/1785-1690/180 5-60/12SS | 38            | Mar. 11, 2019    |
| 6                             | Band Reject Filter                  | Wairwright Instruments Gmbh | WRCG 824/849-810/863-60/ 9SS      | 7             | Mar. 11, 2019    |
| 7                             | Band Reject Filter                  | Wairwright Instruments Gmbh | WRCG 880/915-860/935-60/ 9SS      | 14            | Mar. 11, 2019    |
| 8                             | Band Reject Filter                  | Wairwright Instruments Gmbh | WRCG 1850/1910-1830/193 0-60/10SS | 17            | Mar. 11, 2019    |
| 9                             | HighPass Filter                     | Wairwright Instruments Gmbh | WHK3.1/18G-10SS                   | 24            | Mar. 11, 2019    |
| 10                            | Wireless Communication Test SET     | Agilent                     | E5515C                            | MY48364183    | Mar. 11, 2019    |
| 11                            | Microwave Preamplifier With Adaptor | EMC INSTRUMENT              | EMC2654045                        | 980039 & HA01 | Mar. 11, 2019    |
| 12                            | Receiver                            | Agilent                     | N9038A                            | MY52130039    | Aug. 11, 2019    |
| 13                            | wideband radio communication tester | R&S                         | CMW500                            | 152372        | Mar. 11, 2019    |
| 14                            | Cable                               | emci                        | LMR-400(30MHz-1G Hz)(8m+5m)       | N/A           | May 25, 2019     |
| 15                            | Cable                               | mitron                      | B10-01-01-12M                     | 18072744      | Jul. 30, 2019    |
| 16                            | Controller                          | ETS-Lindgren                | 2090                              | N/A           | N/A              |
| 17                            | Measurement Software                | Farad                       | EZ-EMC Ver.NB-03A1-01             | N/A           | N/A              |
| 18                            | Loop Antenna                        | EM                          | EM-6876-1                         | 230           | Feb. 07, 2019    |
| 19                            | Double Ridged Guide Antenna         | ETS                         | 3115                              | 75789         | Mar. 11, 2019    |
| 20                            | Broad-Band Horn Antenna             | Schwarzbeck                 | BBHA 9170                         | 9170319       | Jun. 30, 2019    |

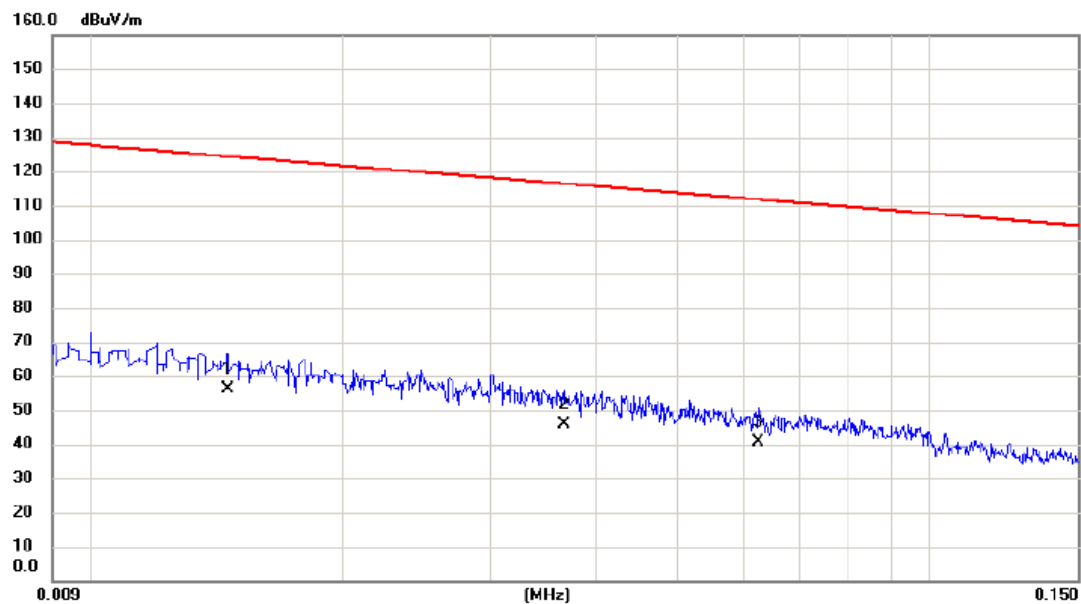
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

## APPENDIX A - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode: TX Mode

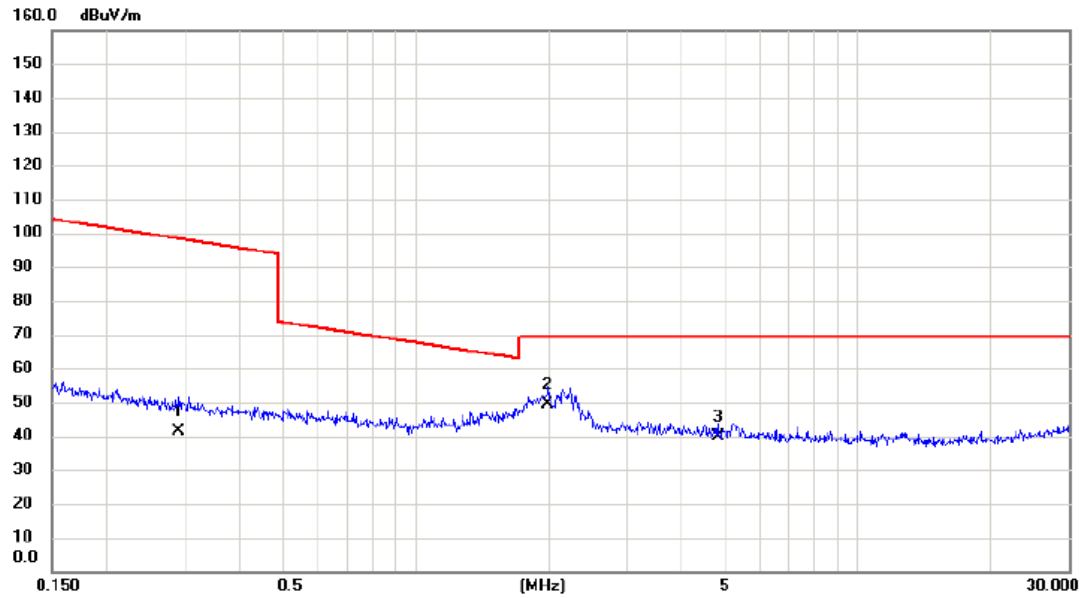
Ant 0°



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 0.0146 | 35.30         | 20.78          | 56.08       | 124.32 | -68.24 | AVG      |         |
| 2   |     | 0.0367 | 26.20         | 19.75          | 45.95       | 116.31 | -70.36 | AVG      |         |
| 3   |     | 0.0625 | 21.30         | 19.28          | 40.58       | 111.69 | -71.11 | AVG      |         |

Test Mode: TX Mode

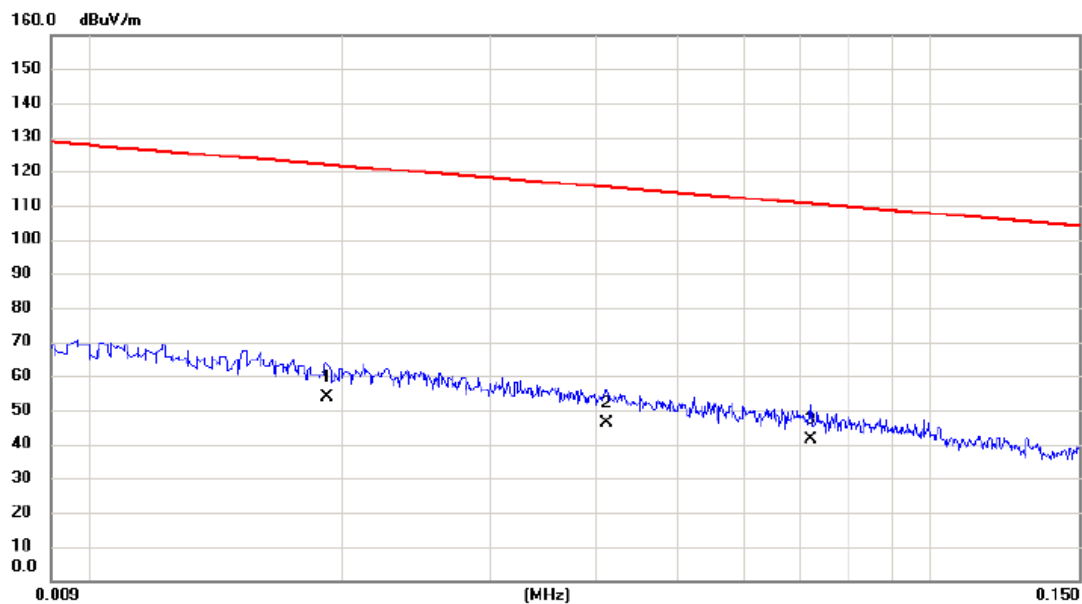
Ant 0°



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1   |     | 0.2910       | 24.40                    | 17.04                   | 41.44                      | 98.33           | -56.89       | AVG      |         |
| 2   | *   | 1.9906       | 32.40                    | 17.11                   | 49.51                      | 69.54           | -20.03       | QP       |         |
| 3   |     | 4.8224       | 24.50                    | 15.27                   | 39.77                      | 69.54           | -29.77       | QP       |         |

Test Mode: TX Mode

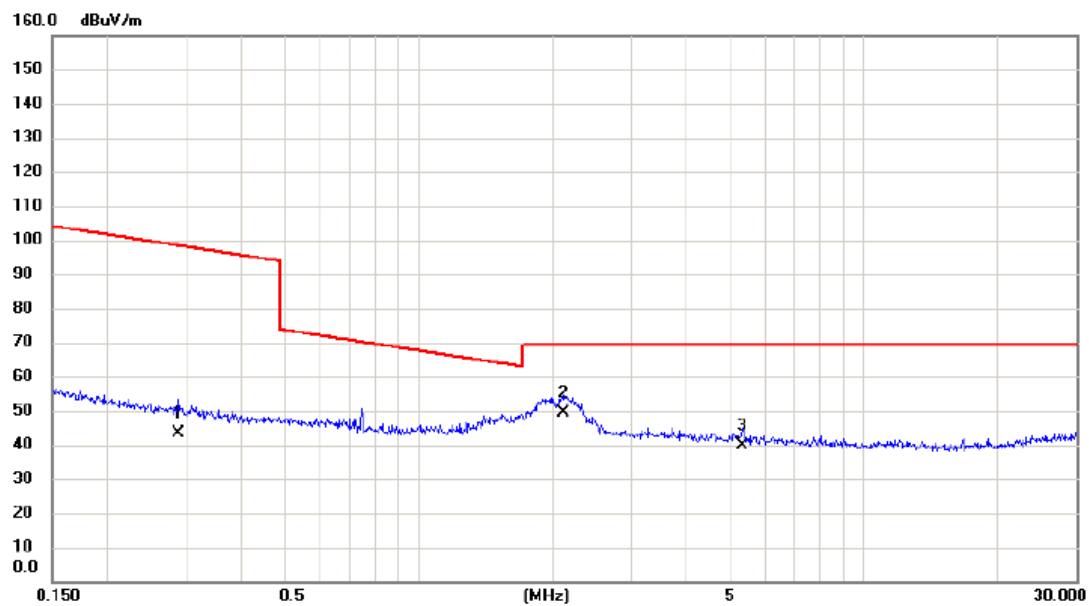
Ant 90°



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Margin |          |         |
|-----|-----|--------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 0.0192 | 33.80         | 20.13          | 53.93        | 121.94 | -68.01 | AVG      |         |
| 2   |     | 0.0412 | 26.70         | 19.68          | 46.38        | 115.31 | -68.93 | AVG      |         |
| 3   |     | 0.0720 | 22.30         | 19.09          | 41.39        | 110.46 | -69.07 | AVG      |         |

Test Mode: TX Mode

Ant 90°

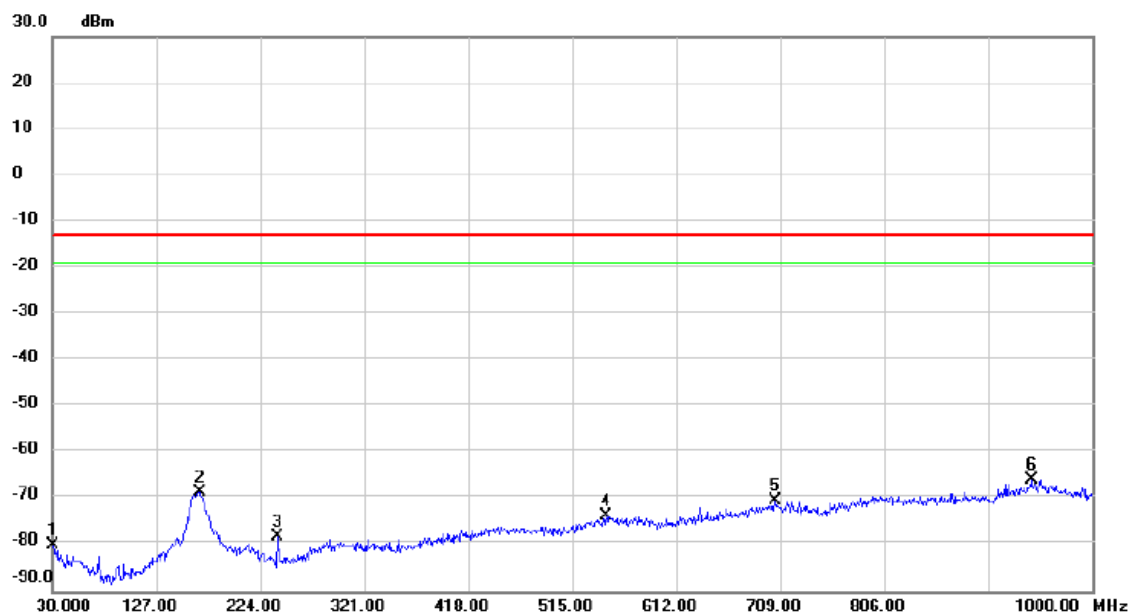


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1   |     | 0.2893       | 26.40                    | 17.04                   | 43.44                      | 98.38           | -54.94       | AVG      |         |
| 2   | *   | 2.1213       | 32.40                    | 17.05                   | 49.45                      | 69.54           | -20.09       | QP       |         |
| 3   |     | 5.3332       | 24.90                    | 15.10                   | 40.00                      | 69.54           | -29.54       | QP       |         |

## APPENDIX B - RADIATED EMISSION (30MHZ TO 1GHZ)

Test Mode: WCDMA Band IV \_TX CH1413

Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 30.000       | -65.06                  | -14.97                  | -80.03                  | -13.00       | -67.03       | peak     |         |
| 2   |     | 167.255      | -57.64                  | -11.04                  | -68.68                  | -13.00       | -55.68       | peak     |         |
| 3   |     | 240.005      | -63.54                  | -14.67                  | -78.21                  | -13.00       | -65.21       | peak     |         |
| 4   |     | 546.525      | -68.06                  | -5.68                   | -73.74                  | -13.00       | -60.74       | peak     |         |
| 5   |     | 704.635      | -67.59                  | -2.86                   | -70.45                  | -13.00       | -57.45       | peak     |         |
| 6 * |     | 943.255      | -66.95                  | 1.14                    | -65.81                  | -13.00       | -52.81       | peak     |         |

Test Mode: WCDMA Band IV \_TX CH1413

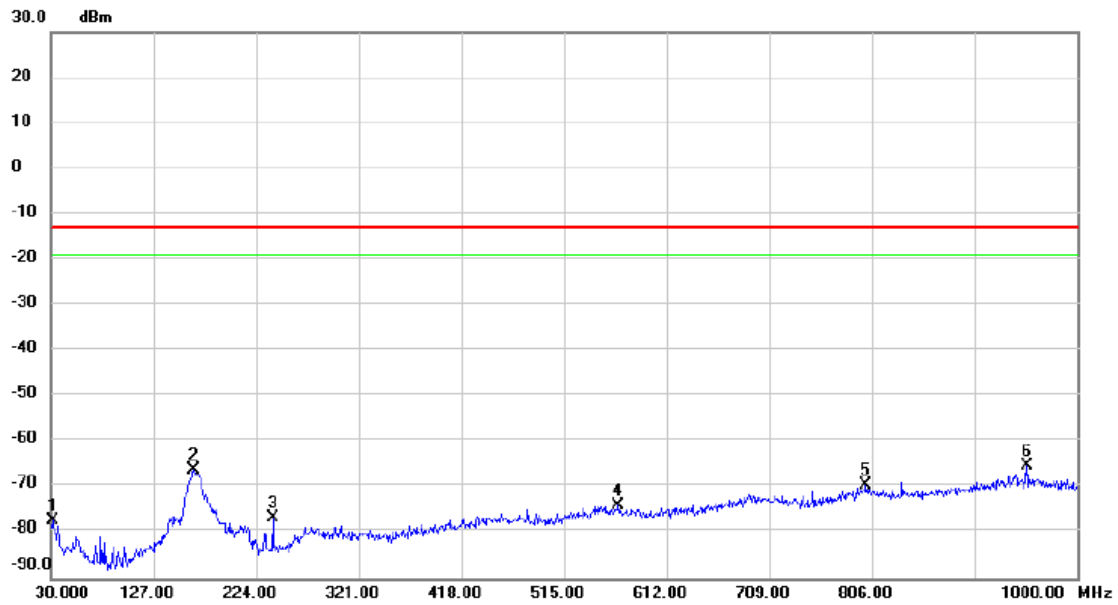
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 162.405      | -54.99                  | -10.74                  | -65.73                  | -13.00       | -52.73       | peak     |         |
| 2   |     | 240.005      | -61.49                  | -14.67                  | -76.16                  | -13.00       | -63.16       | peak     |         |
| 3   |     | 450.495      | -68.14                  | -7.41                   | -75.55                  | -13.00       | -62.55       | peak     |         |
| 4   |     | 571.260      | -67.90                  | -5.82                   | -73.72                  | -13.00       | -60.72       | peak     |         |
| 5   |     | 799.695      | -67.81                  | -1.06                   | -68.87                  | -13.00       | -55.87       | peak     |         |
| 6   | *   | 952.955      | -66.99                  | 1.34                    | -65.65                  | -13.00       | -52.65       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_1.4M

Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 31.455       | -62.09                  | -15.02                  | -77.11                  | -13.00       | -64.11       | peak     |         |
| 2   |     | 164.830      | -55.30                  | -10.90                  | -66.20                  | -13.00       | -53.20       | peak     |         |
| 3   |     | 240.005      | -62.05                  | -14.67                  | -76.72                  | -13.00       | -63.72       | peak     |         |
| 4   |     | 566.410      | -68.22                  | -5.73                   | -73.95                  | -13.00       | -60.95       | peak     |         |
| 5   |     | 800.180      | -68.32                  | -1.04                   | -69.36                  | -13.00       | -56.36       | peak     |         |
| 6   | *   | 952.470      | -66.57                  | 1.35                    | -65.22                  | -13.00       | -52.22       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_1.4M

### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 164.830      | -54.01                  | -10.90                  | -64.91                  | -13.00       | -51.91       | peak     |         |
| 2   |     | 214.300      | -60.33                  | -15.06                  | -75.39                  | -13.00       | -62.39       | peak     |         |
| 3   |     | 433.035      | -67.33                  | -8.08                   | -75.41                  | -13.00       | -62.41       | peak     |         |
| 4   |     | 704.635      | -68.46                  | -2.86                   | -71.32                  | -13.00       | -58.32       | peak     |         |
| 5   |     | 799.210      | -68.37                  | -1.08                   | -69.45                  | -13.00       | -56.45       | peak     |         |
| 6   | *   | 952.470      | -65.89                  | 1.35                    | -64.54                  | -13.00       | -51.54       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_5M

Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 165.800      | -54.49                  | -10.95                  | -65.44                  | -13.00       | -52.44       | peak     |         |
| 2   |     | 240.005      | -61.49                  | -14.67                  | -76.16                  | -13.00       | -63.16       | peak     |         |
| 3   |     | 550.405      | -67.98                  | -5.48                   | -73.46                  | -13.00       | -60.46       | peak     |         |
| 4   |     | 696.875      | -68.27                  | -2.90                   | -71.17                  | -13.00       | -58.17       | peak     |         |
| 5   |     | 795.330      | -68.23                  | -1.32                   | -69.55                  | -13.00       | -56.55       | peak     |         |
| 6   |     | 952.470      | -66.85                  | 1.35                    | -65.50                  | -13.00       | -52.50       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_5M

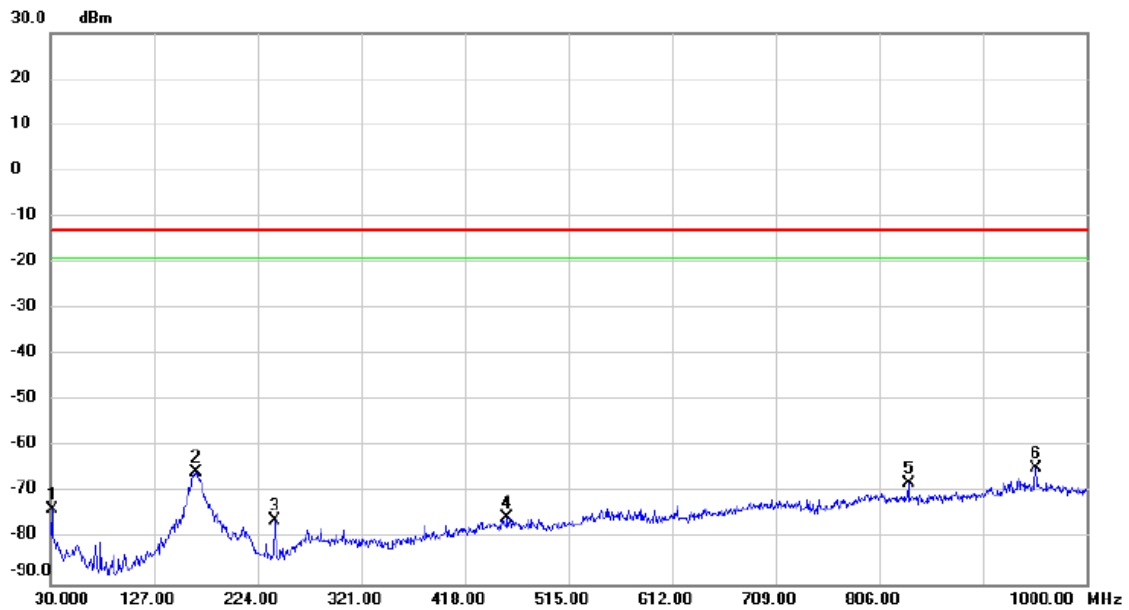
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 164.830      | -54.00                  | -10.90                  | -64.90                  | -13.00       | -51.90       | peak     |         |
| 2   |     | 216.725      | -61.21                  | -14.97                  | -76.18                  | -13.00       | -63.18       | peak     |         |
| 3   |     | 433.035      | -67.49                  | -8.08                   | -75.57                  | -13.00       | -62.57       | peak     |         |
| 4   |     | 534.400      | -67.21                  | -6.43                   | -73.64                  | -13.00       | -60.64       | peak     |         |
| 5   |     | 692.510      | -68.09                  | -3.11                   | -71.20                  | -13.00       | -58.20       | peak     |         |
| 6   |     | 952.470      | -67.41                  | 1.35                    | -66.06                  | -13.00       | -53.06       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_20M

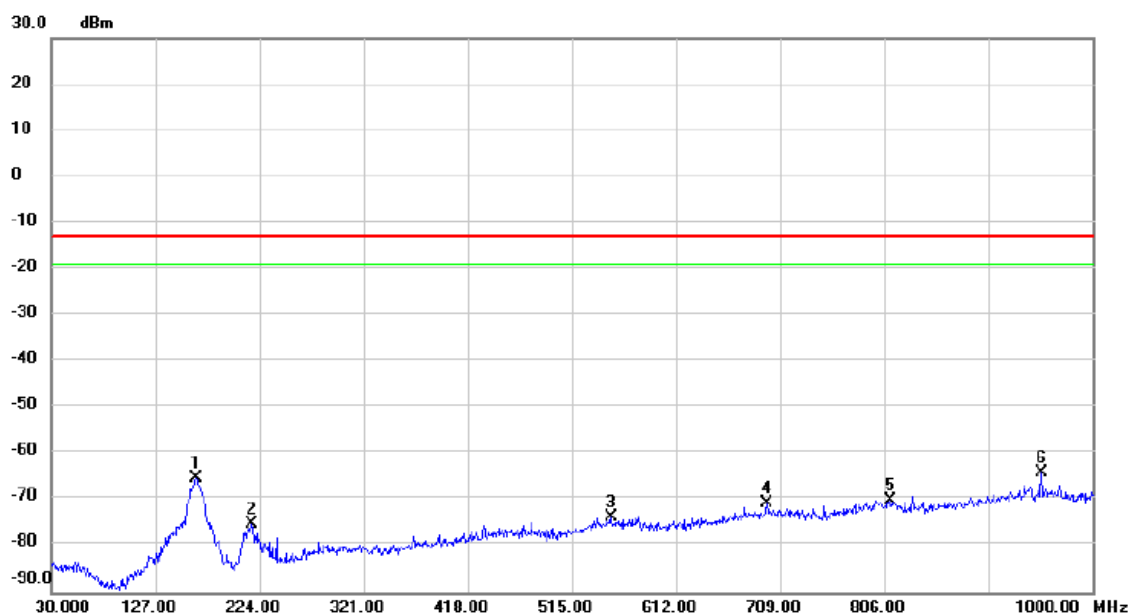
Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 31.455       | -58.51                  | -15.02                  | -73.53                  | -13.00       | -60.53       | peak     |         |
| 2   |     | 165.800      | -54.69                  | -10.95                  | -65.64                  | -13.00       | -52.64       | peak     |         |
| 3   |     | 240.005      | -61.38                  | -14.67                  | -76.05                  | -13.00       | -63.05       | peak     |         |
| 4   |     | 457.770      | -67.74                  | -7.58                   | -75.32                  | -13.00       | -62.32       | peak     |         |
| 5   |     | 833.160      | -66.54                  | -1.56                   | -68.10                  | -13.00       | -55.10       | peak     |         |
| 6   | *   | 952.470      | -66.10                  | 1.35                    | -64.75                  | -13.00       | -51.75       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_20M

### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 164.830      | -54.22                  | -10.90                  | -65.12                  | -13.00       | -52.12       | peak     |         |
| 2   |     | 216.725      | -60.29                  | -14.97                  | -75.26                  | -13.00       | -62.26       | peak     |         |
| 3   |     | 551.375      | -68.22                  | -5.48                   | -73.70                  | -13.00       | -60.70       | peak     |         |
| 4   |     | 696.875      | -67.62                  | -2.90                   | -70.52                  | -13.00       | -57.52       | peak     |         |
| 5   |     | 812.305      | -68.74                  | -1.23                   | -69.97                  | -13.00       | -56.97       | peak     |         |
| 6   | *   | 952.470      | -65.53                  | 1.35                    | -64.18                  | -13.00       | -51.18       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_5M

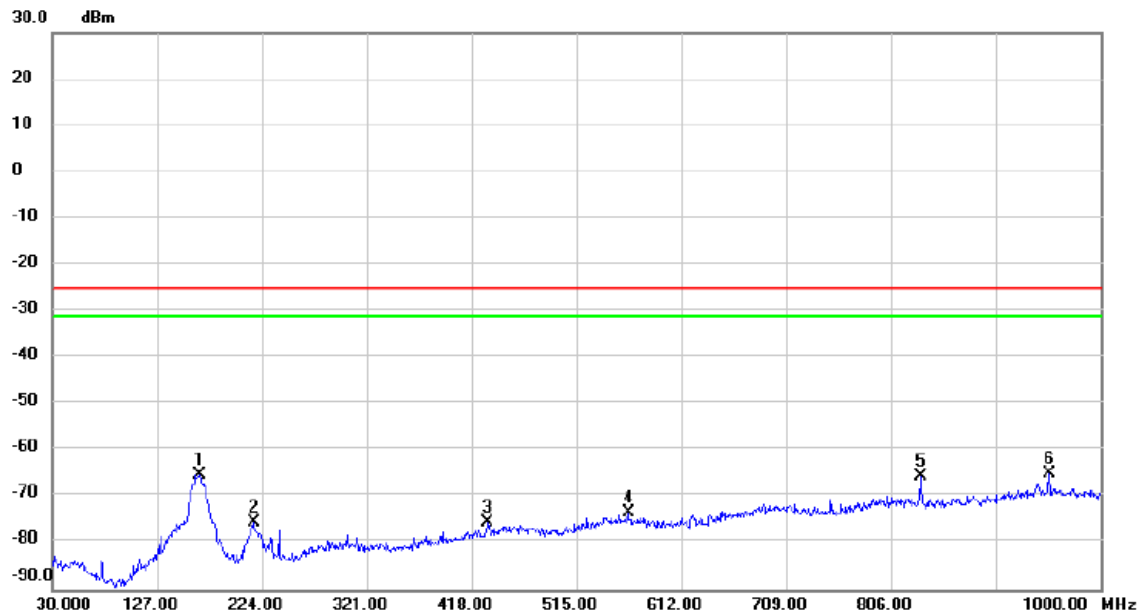
Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 31.455       | -60.56                  | -15.02                  | -75.58                  | -25.00       | -50.58       | peak     |         |
| 2   |     | 164.830      | -54.67                  | -10.90                  | -65.57                  | -25.00       | -40.57       | peak     |         |
| 3   |     | 240.005      | -61.49                  | -14.67                  | -76.16                  | -25.00       | -51.16       | peak     |         |
| 4   |     | 554.770      | -68.27                  | -5.55                   | -73.82                  | -25.00       | -48.82       | peak     |         |
| 5   |     | 782.720      | -67.29                  | -2.08                   | -69.37                  | -25.00       | -44.37       | peak     |         |
| 6   | *   | 936.465      | -66.20                  | 0.86                    | -65.34                  | -25.00       | -40.34       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_5M

### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 165.800      | -54.19                  | -10.95                  | -65.14                  | -25.00       | -40.14       | peak     |         |
| 2   |     | 216.240      | -60.57                  | -14.98                  | -75.55                  | -25.00       | -50.55       | peak     |         |
| 3   |     | 433.035      | -67.46                  | -8.08                   | -75.54                  | -25.00       | -50.54       | peak     |         |
| 4   |     | 563.015      | -67.71                  | -5.69                   | -73.40                  | -25.00       | -48.40       | peak     |         |
| 5   |     | 833.645      | -63.89                  | -1.57                   | -65.46                  | -25.00       | -40.46       | peak     |         |
| 6   | *   | 952.470      | -66.25                  | 1.35                    | -64.90                  | -25.00       | -39.90       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_20M

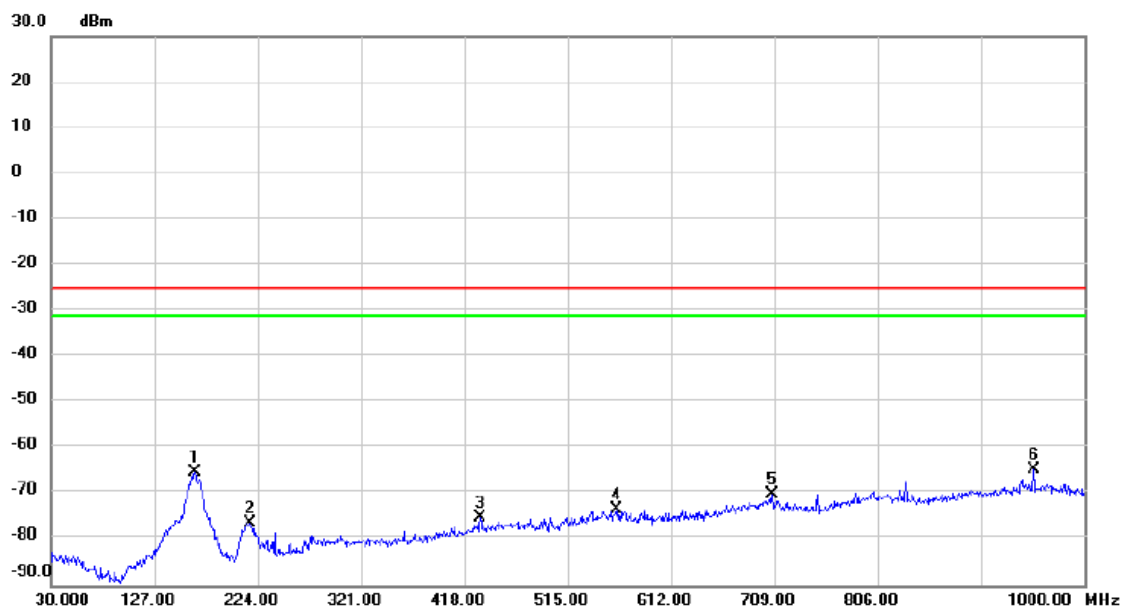
### Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 31.455       | -60.86                  | -15.02                  | -75.88                  | -25.00       | -50.88       | peak     |         |
| 2   |     | 166.770      | -54.78                  | -11.00                  | -65.78                  | -25.00       | -40.78       | peak     |         |
| 3   |     | 240.005      | -60.98                  | -14.67                  | -75.65                  | -25.00       | -50.65       | peak     |         |
| 4   |     | 452.920      | -67.05                  | -7.46                   | -74.51                  | -25.00       | -49.51       | peak     |         |
| 5   |     | 703.665      | -68.34                  | -2.84                   | -71.18                  | -25.00       | -46.18       | peak     |         |
| 6 * |     | 952.470      | -63.15                  | 1.35                    | -61.80                  | -25.00       | -36.80       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_20M

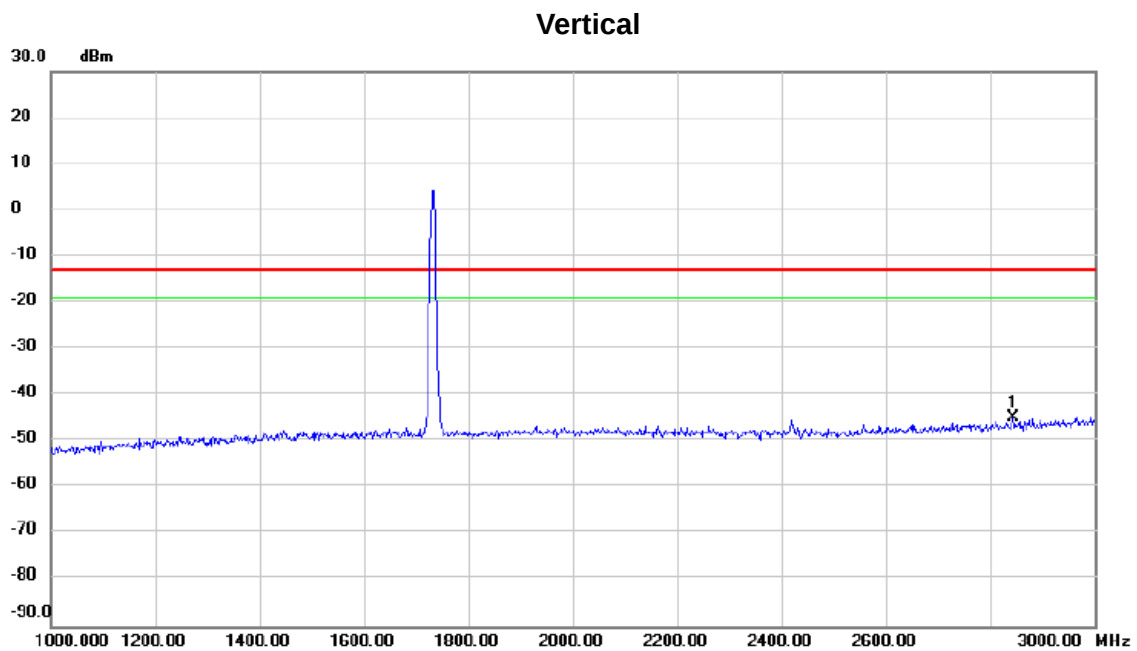
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 165.315      | -54.34                  | -10.91                  | -65.25                  | -25.00       | -40.25       | peak     |         |
| 2   |     | 217.210      | -61.30                  | -14.95                  | -76.25                  | -25.00       | -51.25       | peak     |         |
| 3   |     | 433.035      | -66.99                  | -8.08                   | -75.07                  | -25.00       | -50.07       | peak     |         |
| 4   |     | 561.560      | -67.71                  | -5.65                   | -73.36                  | -25.00       | -48.36       | peak     |         |
| 5   |     | 707.545      | -67.04                  | -2.94                   | -69.98                  | -25.00       | -44.98       | peak     |         |
| 6   | *   | 952.470      | -65.91                  | 1.35                    | -64.56                  | -25.00       | -39.56       | peak     |         |

## APPENDIX C - RADIATED EMISSION (ABOVE 1GHZ)

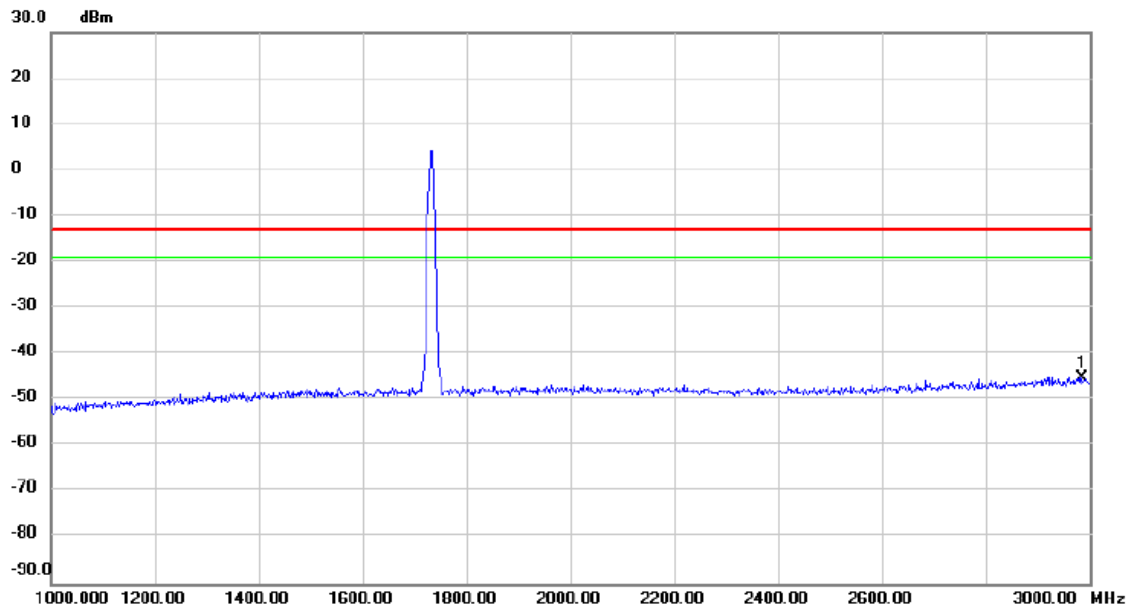
|            |                          |
|------------|--------------------------|
| Test Mode: | WCDMA Band IV _TX CH1413 |
|------------|--------------------------|



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2844.000     | -53.68                  | 8.92                    | -44.76                  | -13.00       | -31.76       | peak     |         |

Test Mode: WCDMA Band IV \_TX CH1413

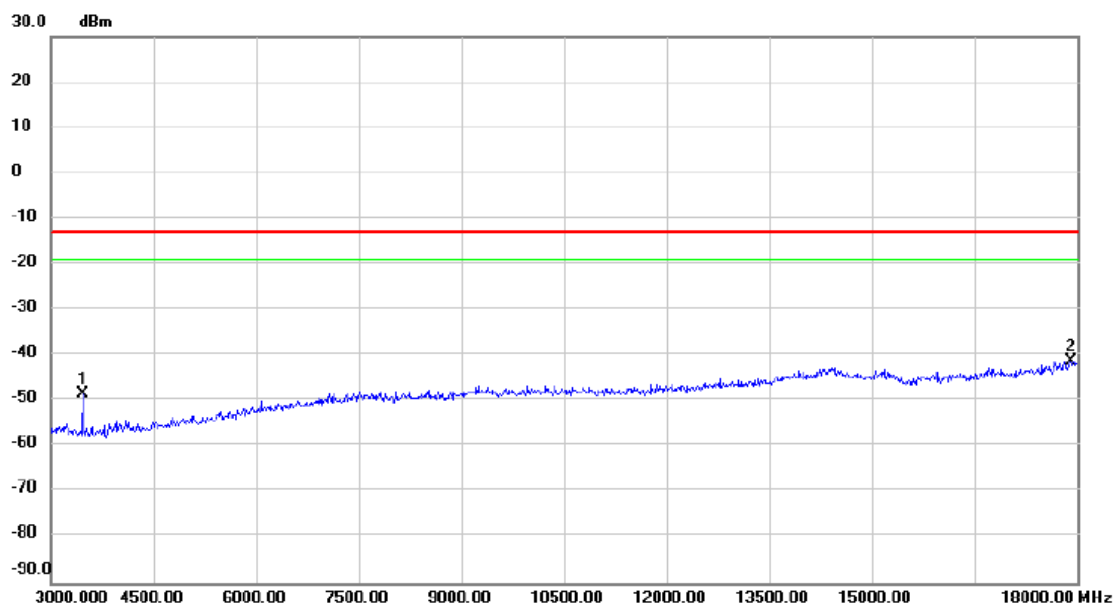
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2984.000     | -54.98                  | 9.85                    | -45.13                  | -13.00       | -32.13       | peak     |         |

|            |                          |
|------------|--------------------------|
| Test Mode: | WCDMA Band IV _TX CH1413 |
|------------|--------------------------|

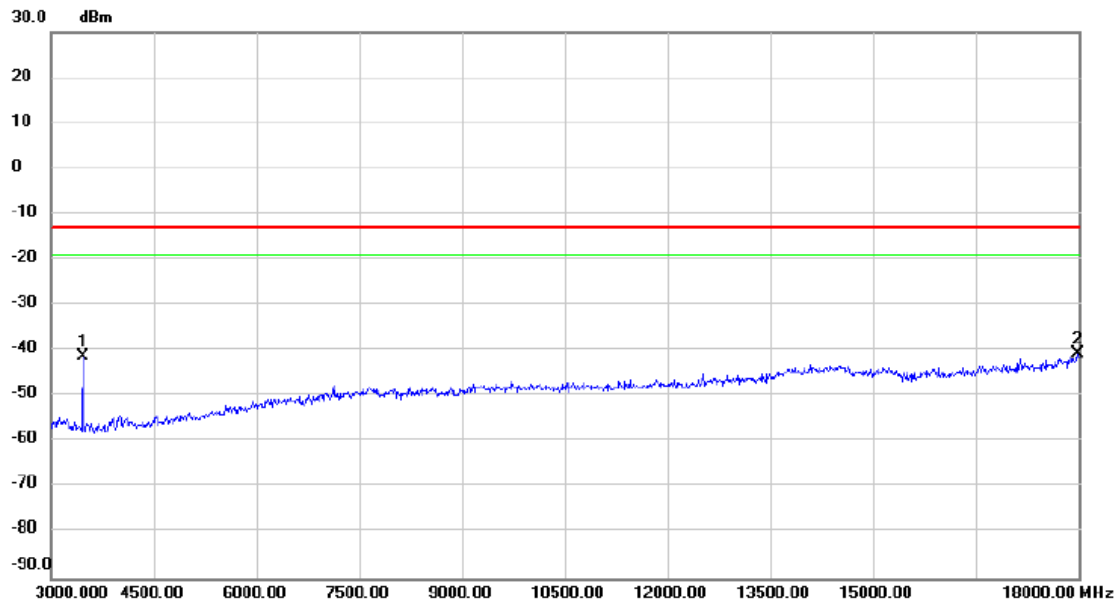
### Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 3465.000     | -48.51                  | 0.18                    | -48.33                  | -13.00       | -35.33       | peak     |         |
| 2   | *   | 17910.000    | -60.27                  | 19.10                   | -41.17                  | -13.00       | -28.17       | peak     |         |

|            |                          |
|------------|--------------------------|
| Test Mode: | WCDMA Band IV _TX CH1413 |
|------------|--------------------------|

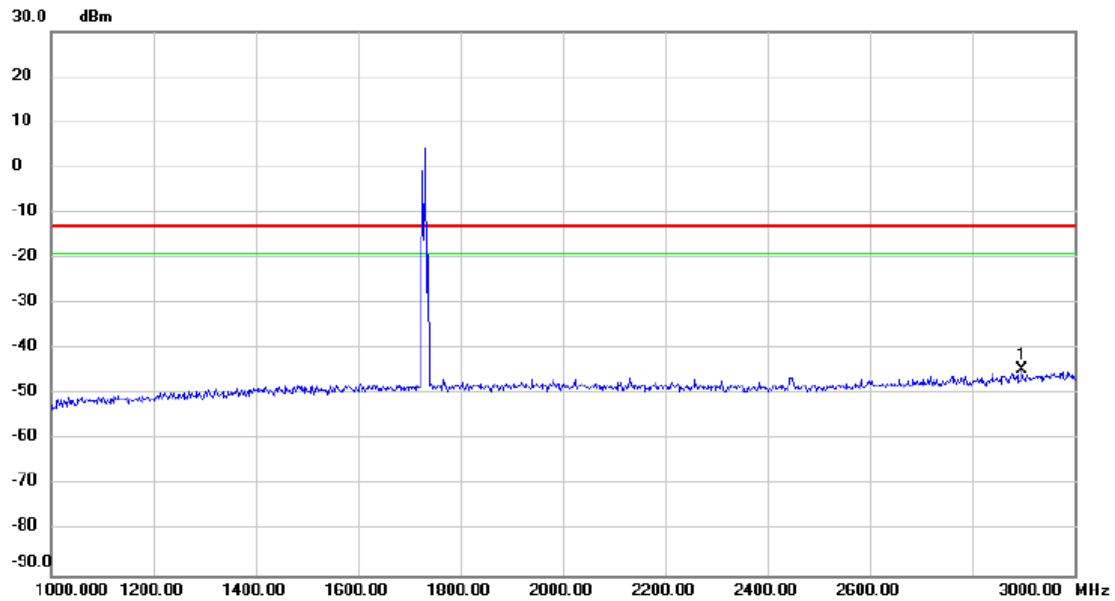
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 3465.000     | -41.35                  | 0.18                    | -41.17                  | -13.00       | -28.17       | peak     |         |
| 2   | *   | 17992.500    | -60.00                  | 19.34                   | -40.66                  | -13.00       | -27.66       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_1.4M

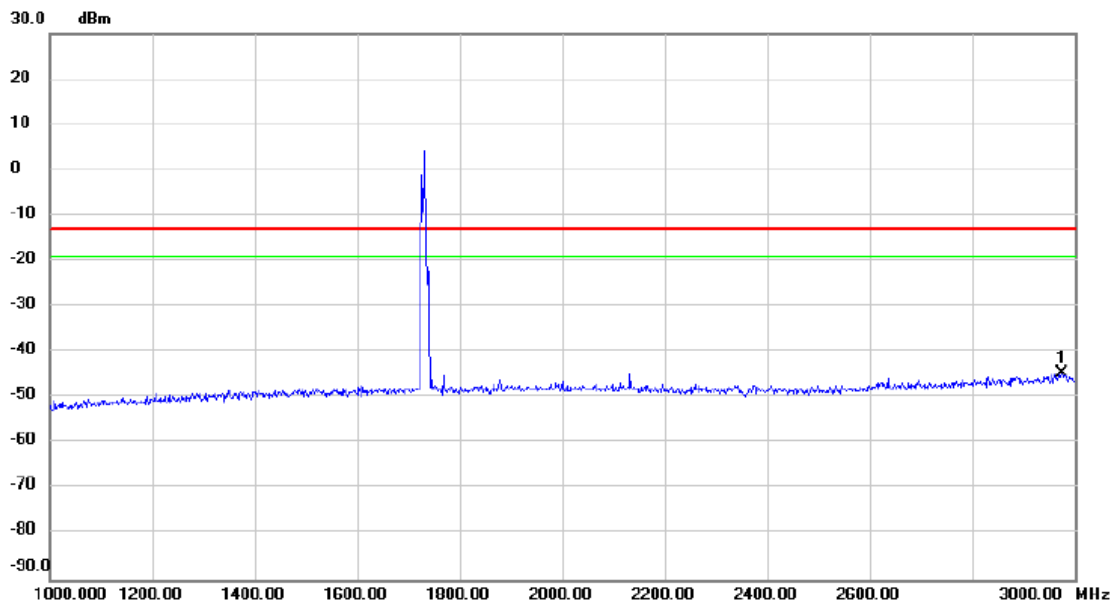
Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2898.000     | -53.73                  | 9.27                    | -44.46                  | -13.00       | -31.46       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_1.4M

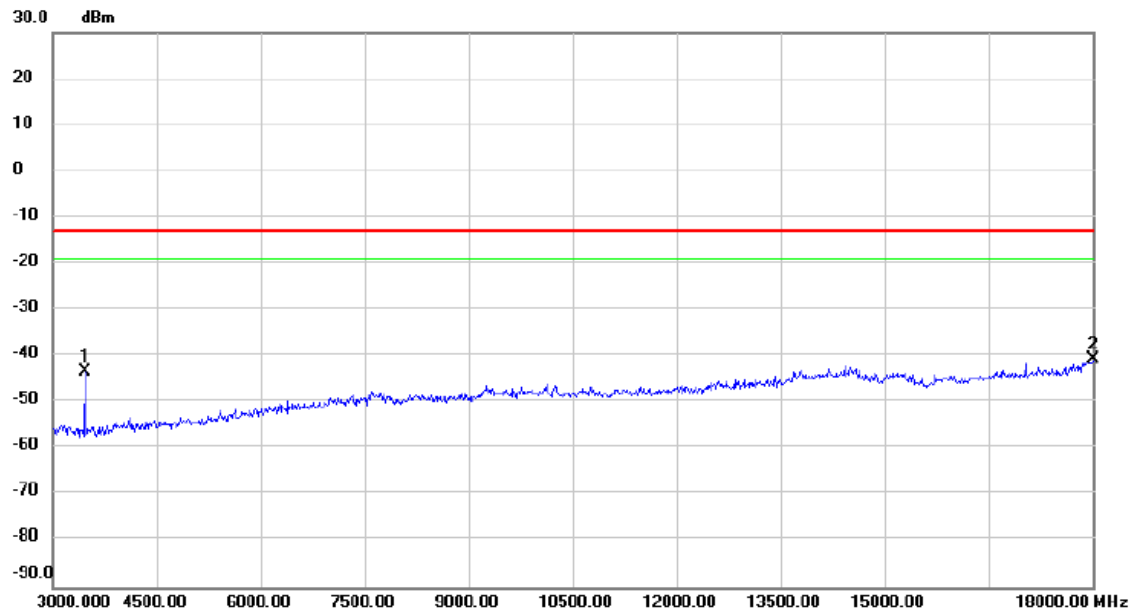
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2974.000     | -54.34                  | 9.78                    | -44.56                  | -13.00       | -31.56       | peak     |         |

|            |                            |
|------------|----------------------------|
| Test Mode: | LTE Band 4_TX CH20175_1.4M |
|------------|----------------------------|

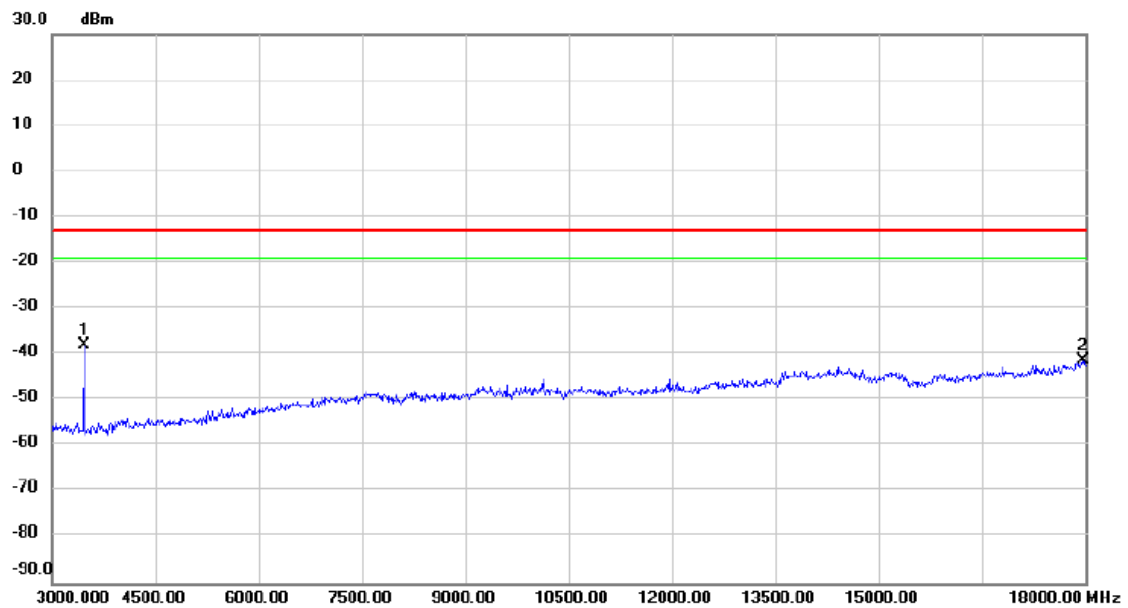
### Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 3465.000     | -43.61                  | 0.18                    | -43.43                  | -13.00       | -30.43       | peak     |         |
| 2   | *   | 18000.000    | -60.16                  | 19.37                   | -40.79                  | -13.00       | -27.79       | peak     |         |

|            |                            |
|------------|----------------------------|
| Test Mode: | LTE Band 4_TX CH20175_1.4M |
|------------|----------------------------|

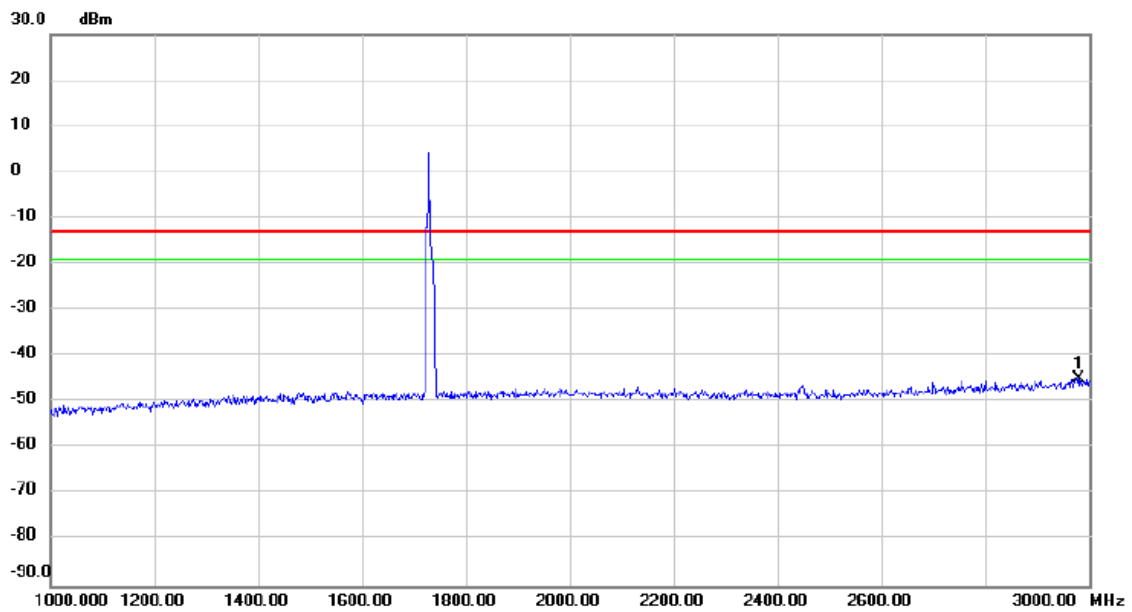
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 3465.000     | -38.09                  | 0.18                    | -37.91                  | -13.00       | -24.91       | peak     |         |
| 2   |     | 17970.000    | -60.58                  | 19.28                   | -41.30                  | -13.00       | -28.30       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_5M

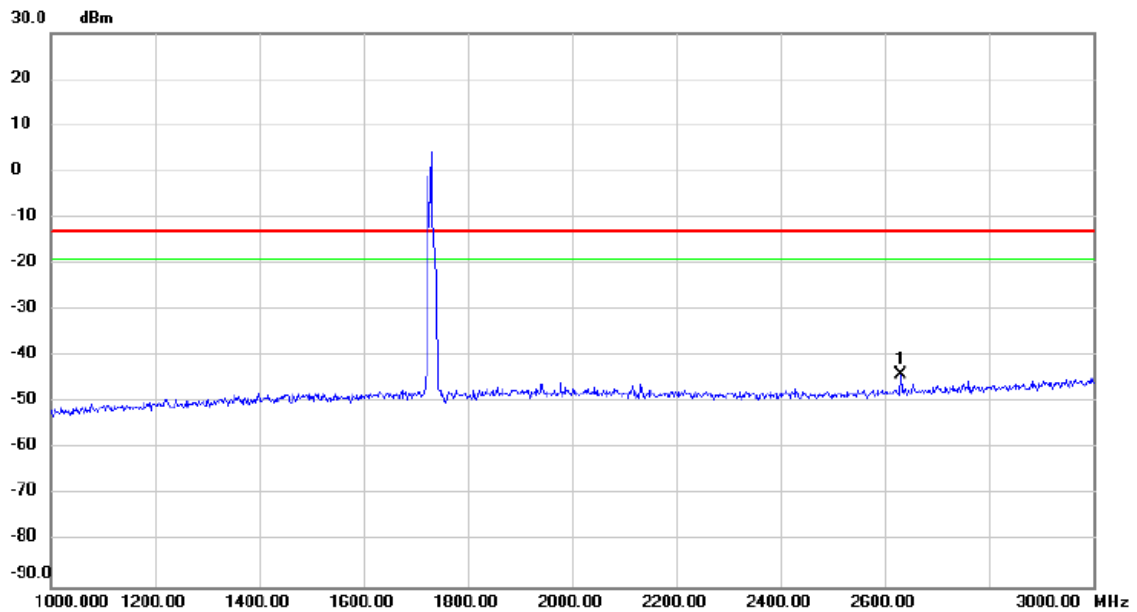
Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2980.000     | -54.70                  | 9.83                    | -44.87                  | -13.00       | -31.87       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_5M

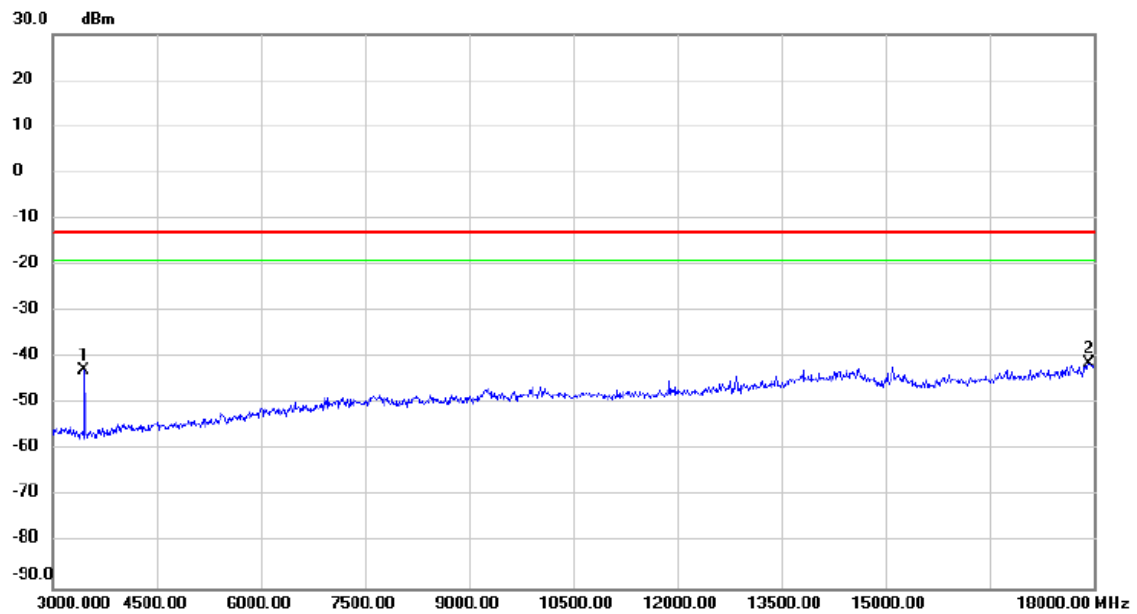
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2630.000     | -51.48                  | 7.48                    | -44.00                  | -13.00       | -31.00       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_5M

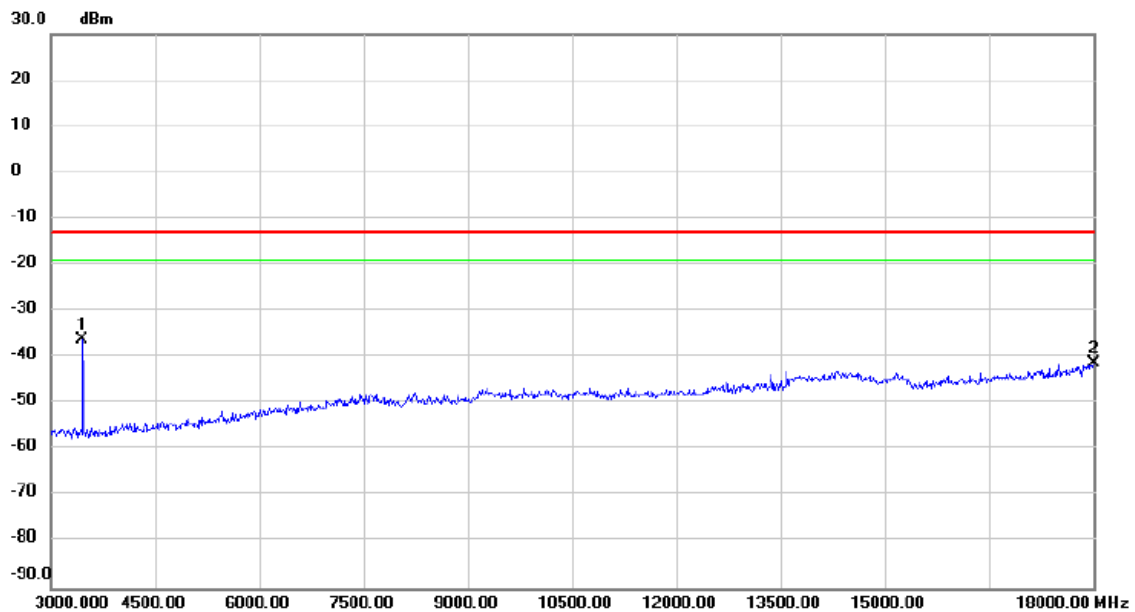
**Vertical**



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 3457.500     | -42.98                  | 0.18                    | -42.80                  | -13.00       | -29.80       | peak     |         |
| 2   | *   | 17925.000    | -60.49                  | 19.14                   | -41.35                  | -13.00       | -28.35       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_5M

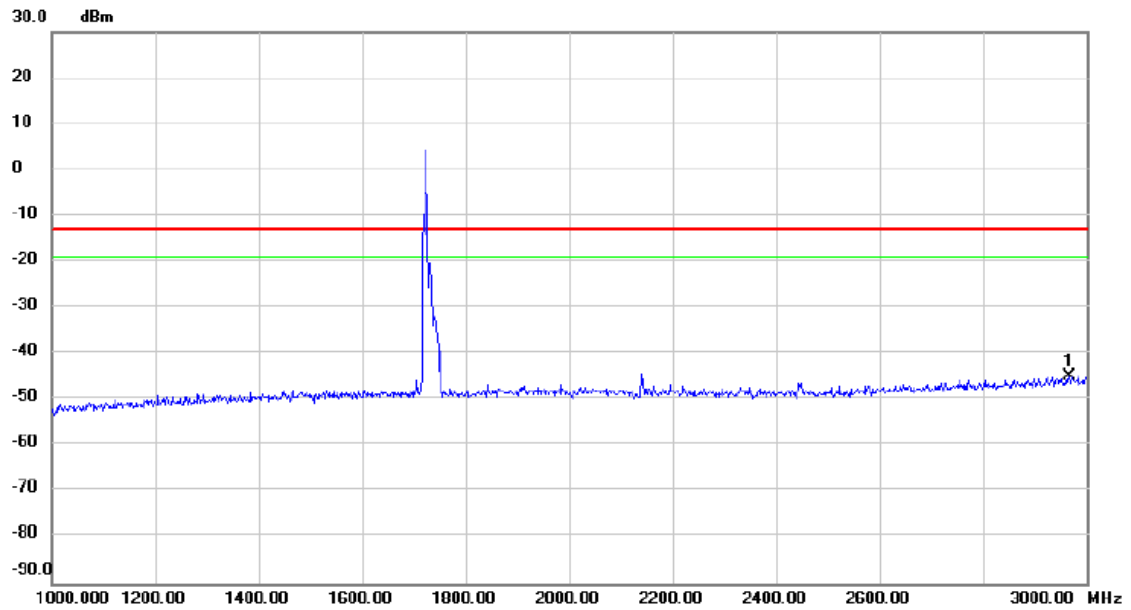
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 3457.500     | -36.38                  | 0.18                    | -36.20                  | -13.00       | -23.20       | peak     |         |
| 2   |     | 18000.000    | -60.63                  | 19.37                   | -41.26                  | -13.00       | -28.26       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_20M

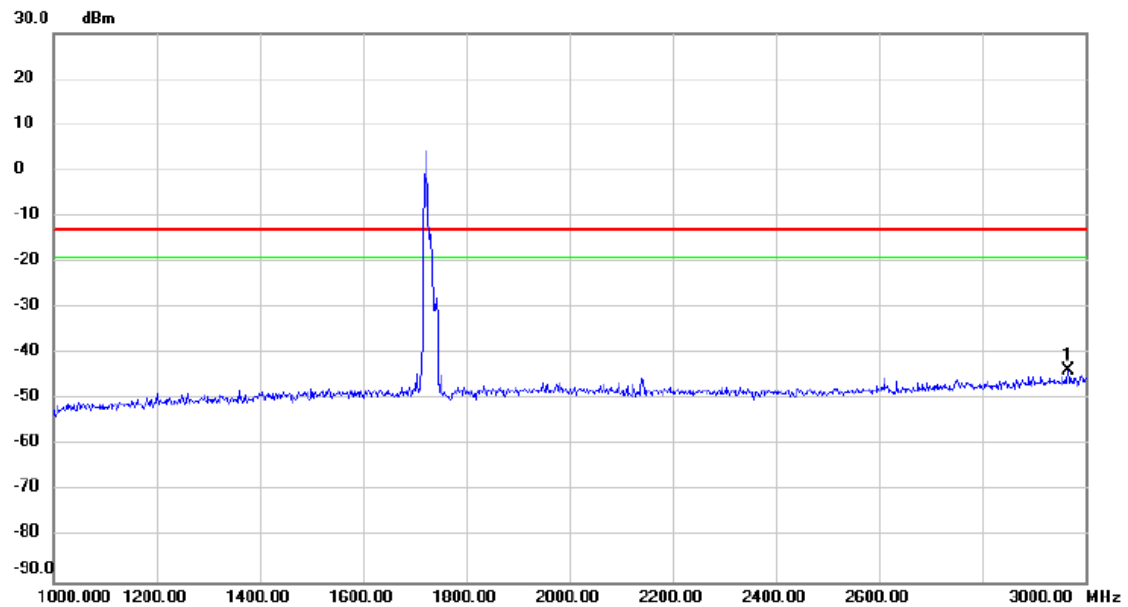
Vertical



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 2967.000 | -54.60        | 9.75           | -44.85      | -13.00 | -31.85 | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_20M

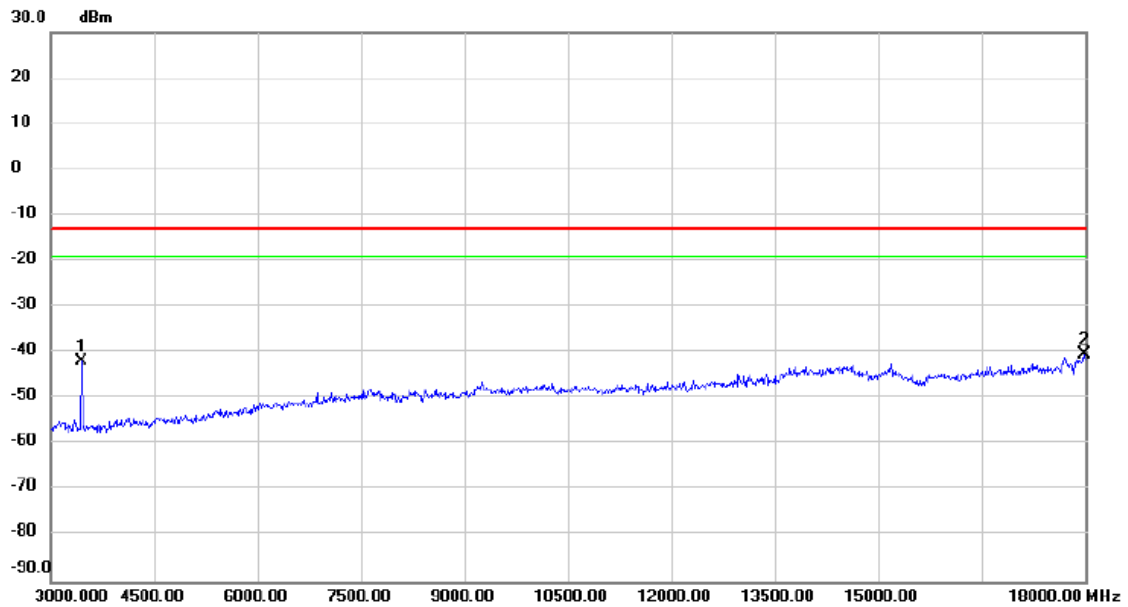
### Horizontal



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | Detector | Comment |
| 1   | *   | 2967.000 | -53.54        | 9.75           | -43.79       | -13.00 | -30.79 | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_20M

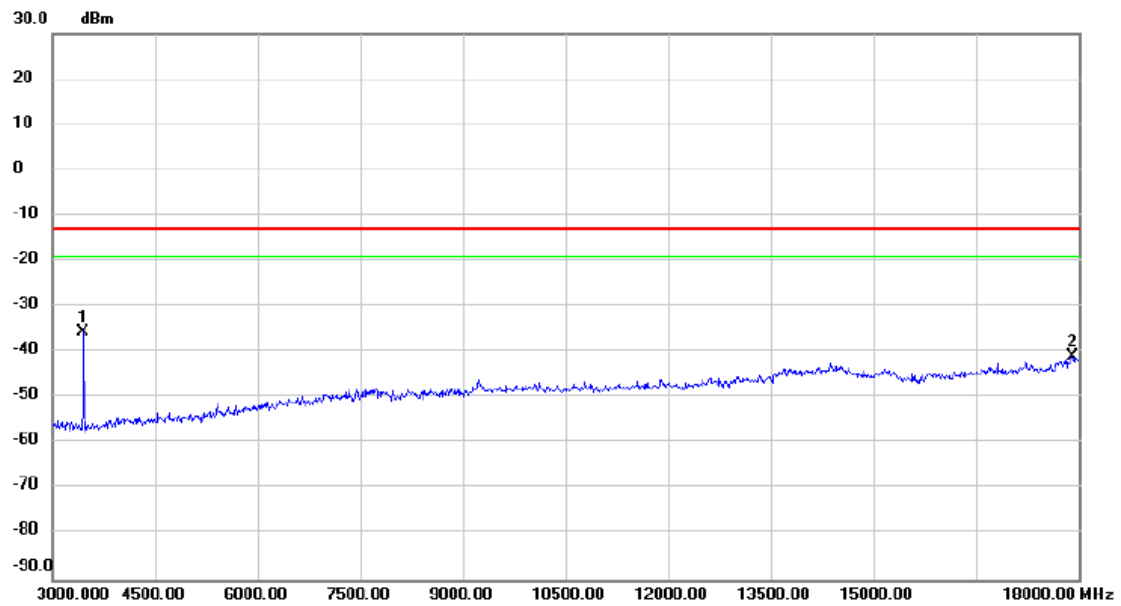
**Vertical**



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 3450.000     | -42.11                  | 0.17                    | -41.94                  | -13.00       | -28.94       | peak     |         |
| 2   | *   | 17985.000    | -59.81                  | 19.33                   | -40.48                  | -13.00       | -27.48       | peak     |         |

Test Mode: LTE Band 4\_TX CH20175\_20M

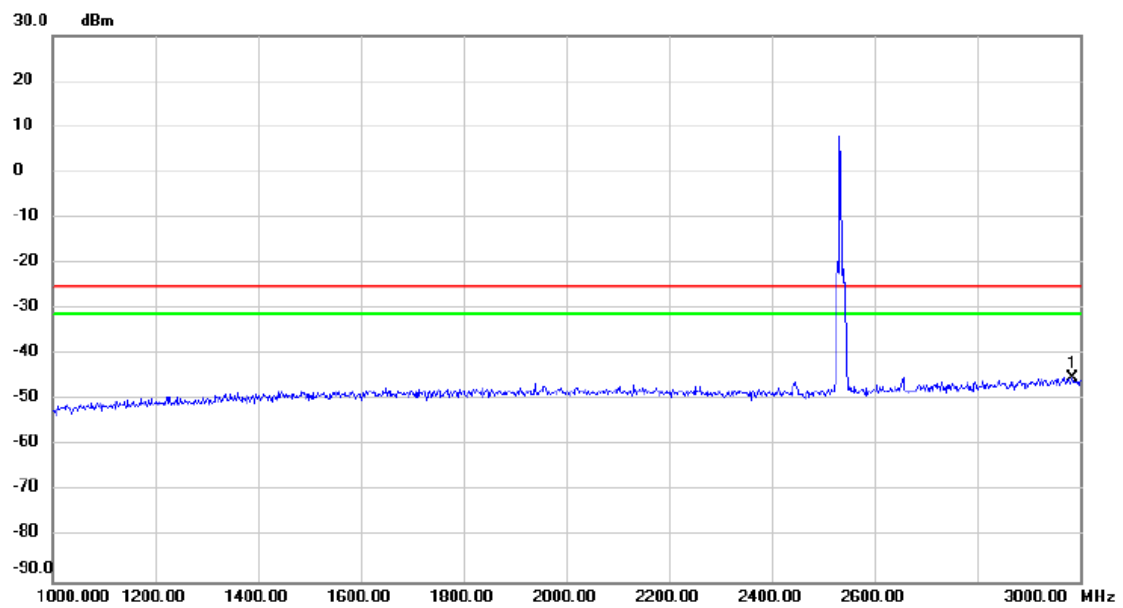
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 3450.000     | -35.83                  | 0.17                    | -35.66                  | -13.00       | -22.66       | peak     |         |
| 2   |     | 17910.000    | -59.95                  | 19.10                   | -40.85                  | -13.00       | -27.85       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_5M

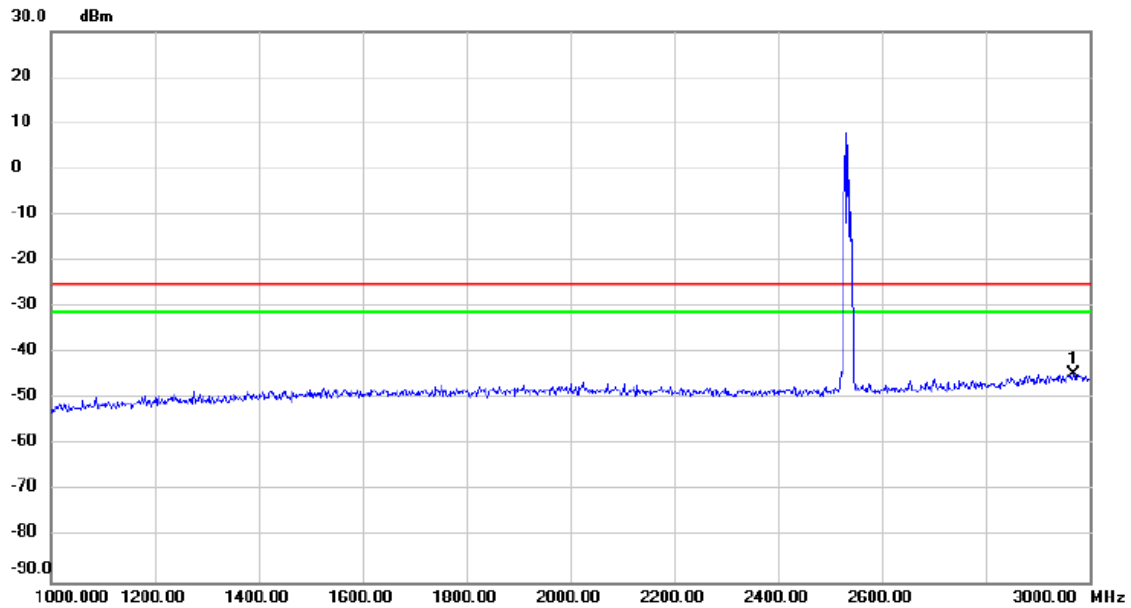
Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2985.000     | -54.86                  | 9.86                    | -45.00                  | -25.00       | -20.00       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_5M

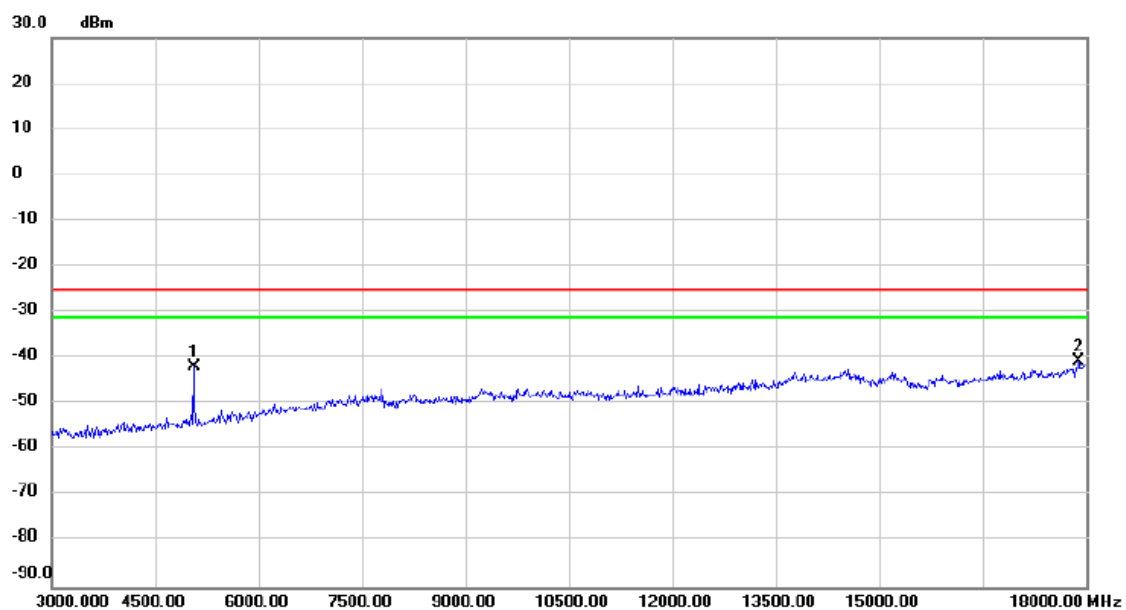
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2970.000     | -54.16                  | 9.76                    | -44.40                  | -25.00       | -19.40       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_5M

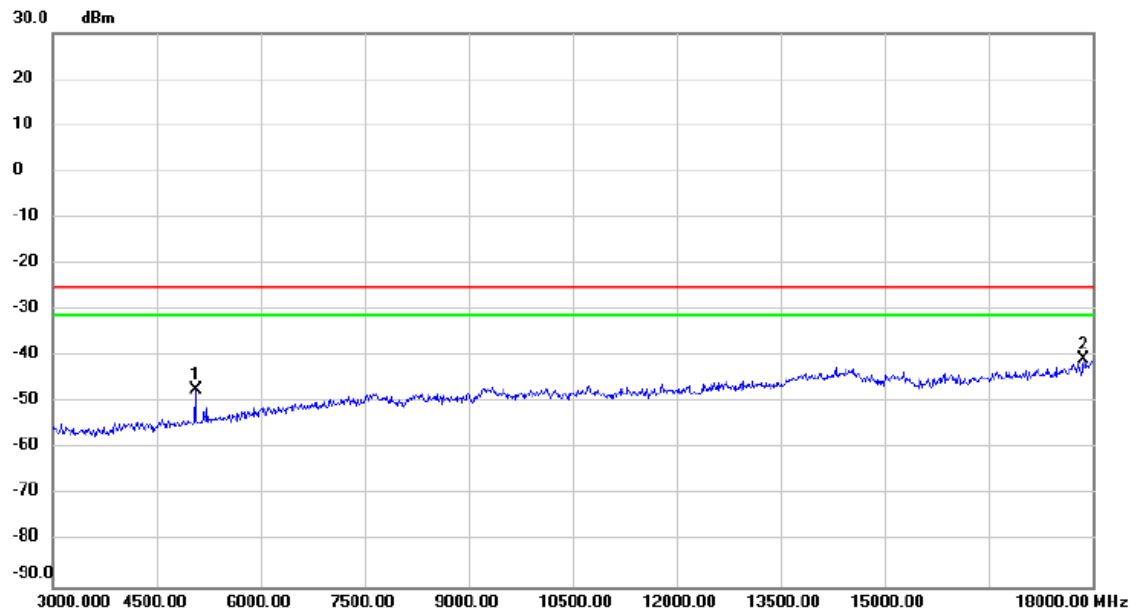
### Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 5062.500     | -45.87                  | 4.12                    | -41.75                  | -25.00       | -16.75       | peak     |         |
| 2   | *   | 17887.500    | -59.60                  | 19.03                   | -40.57                  | -25.00       | -15.57       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_5M

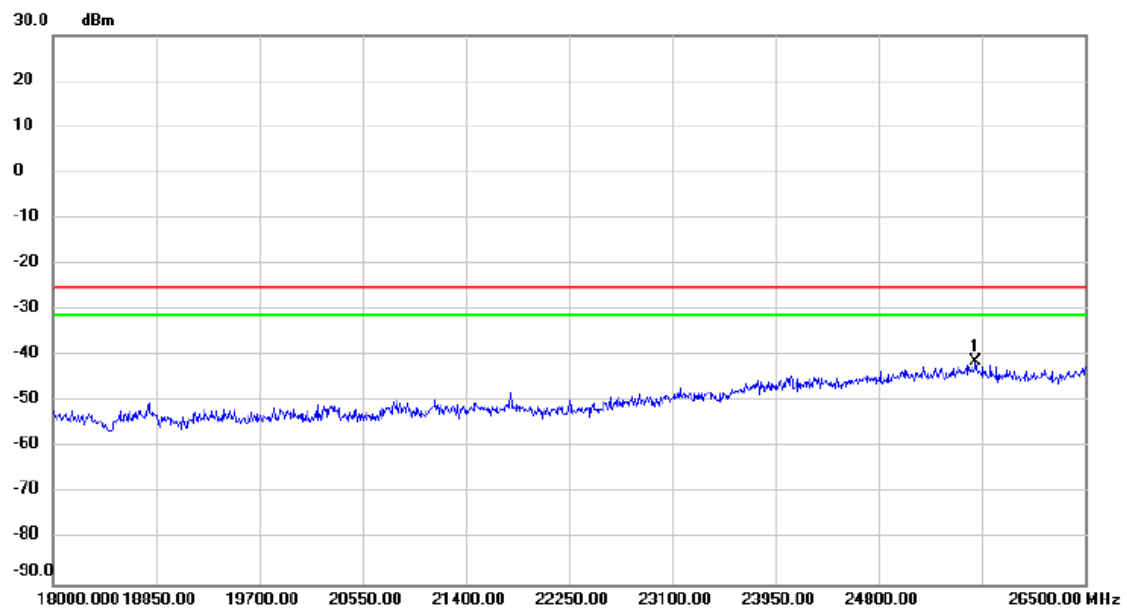
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 5062.500     | -51.46                  | 4.12                    | -47.34                  | -25.00       | -22.34       | peak     |         |
| 2   | *   | 17872.500    | -59.72                  | 18.99                   | -40.73                  | -25.00       | -15.73       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_5M

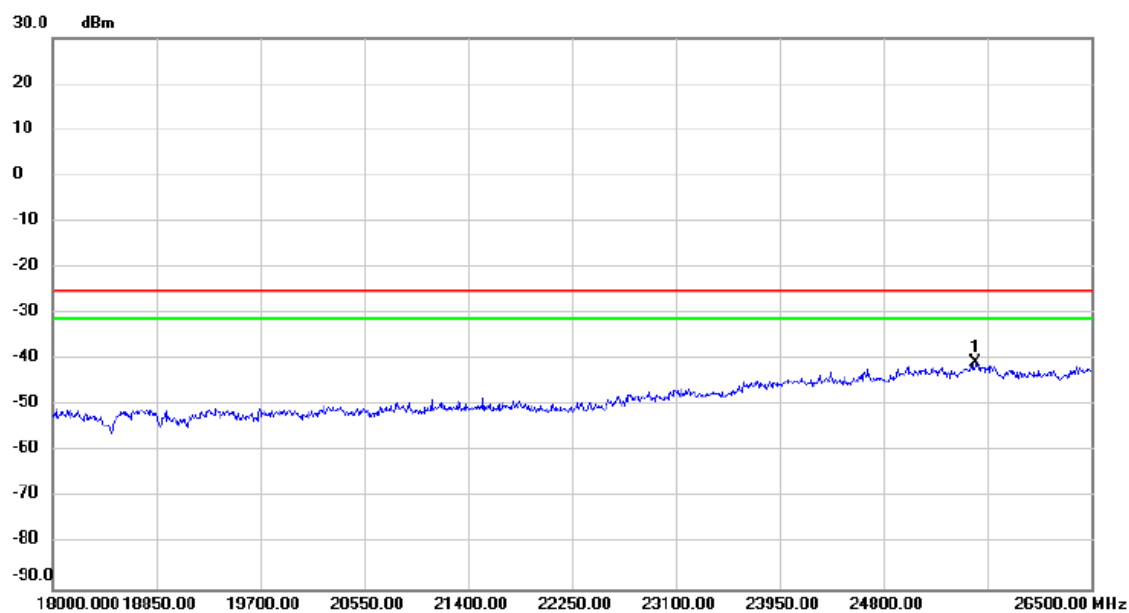
Vertical



| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz       | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 25599.000 | -63.25        | 22.01          | -41.24      | -25.00 | -16.24 | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_5M

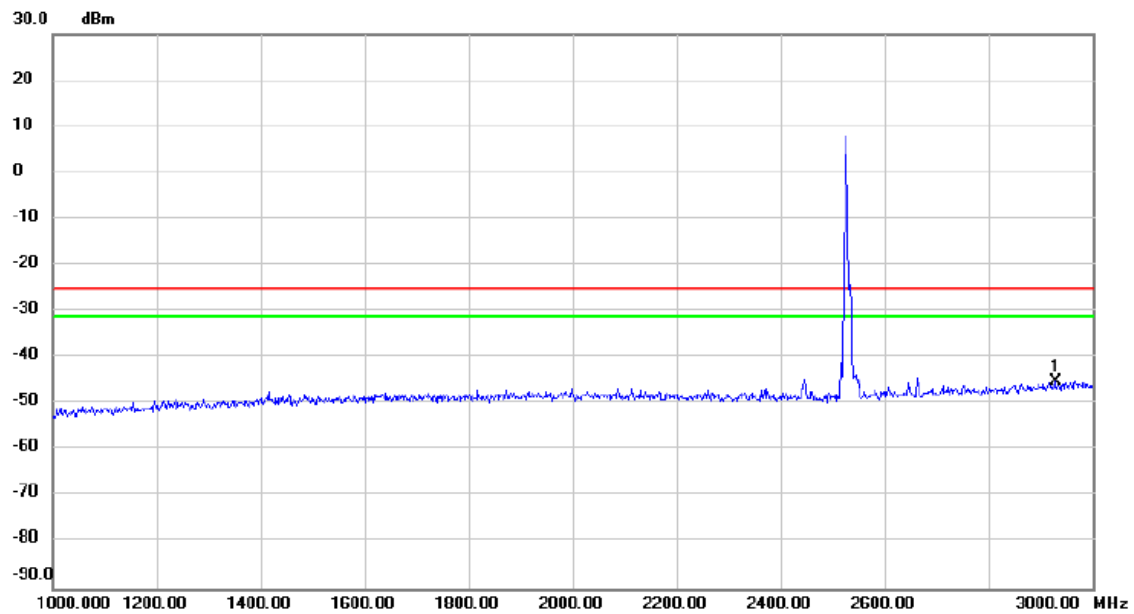
### Horizontal



| No. | Mk. | Freq.     | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz       | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 25556.500 | -62.65        | 22.06          | -40.59      | -25.00 | -15.59 | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_20M

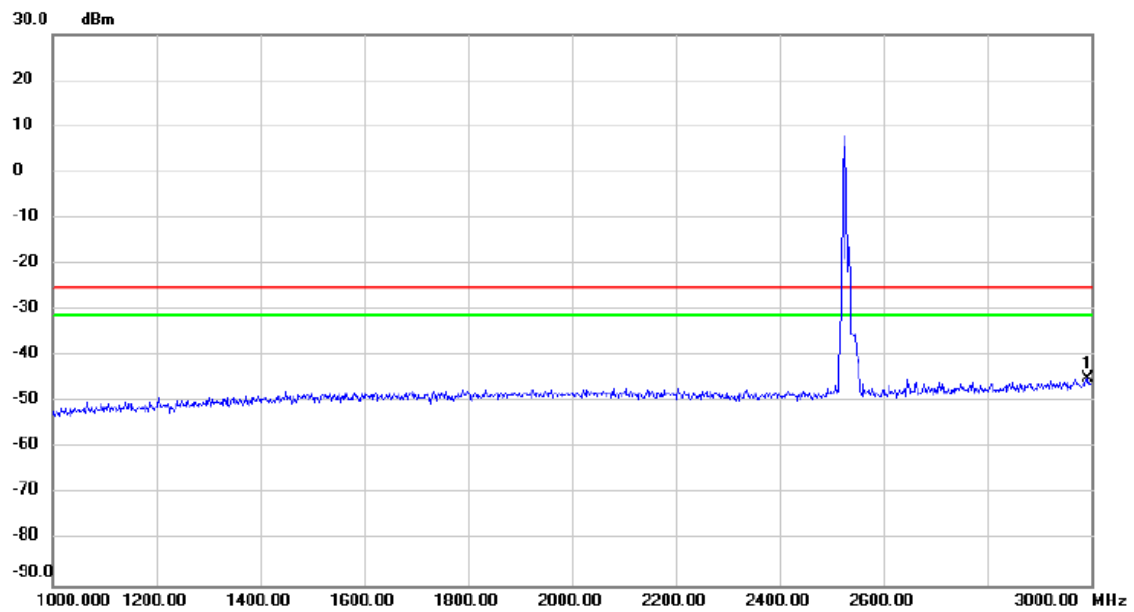
Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 2928.000     | -54.60                  | 9.48                    | -45.12                  | -25.00       | -20.12       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_20M

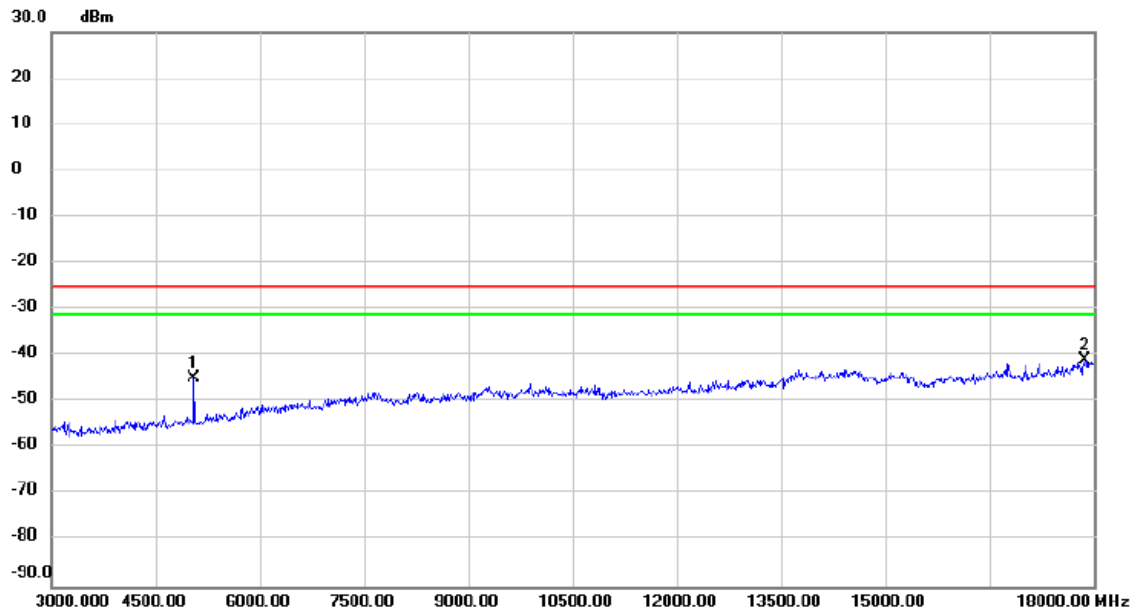
### Horizontal



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | Detector | Comment |
| 1   | *   | 2994.000 | -54.65        | 9.93           | -44.72      | -25.00 | -19.72 | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_20M

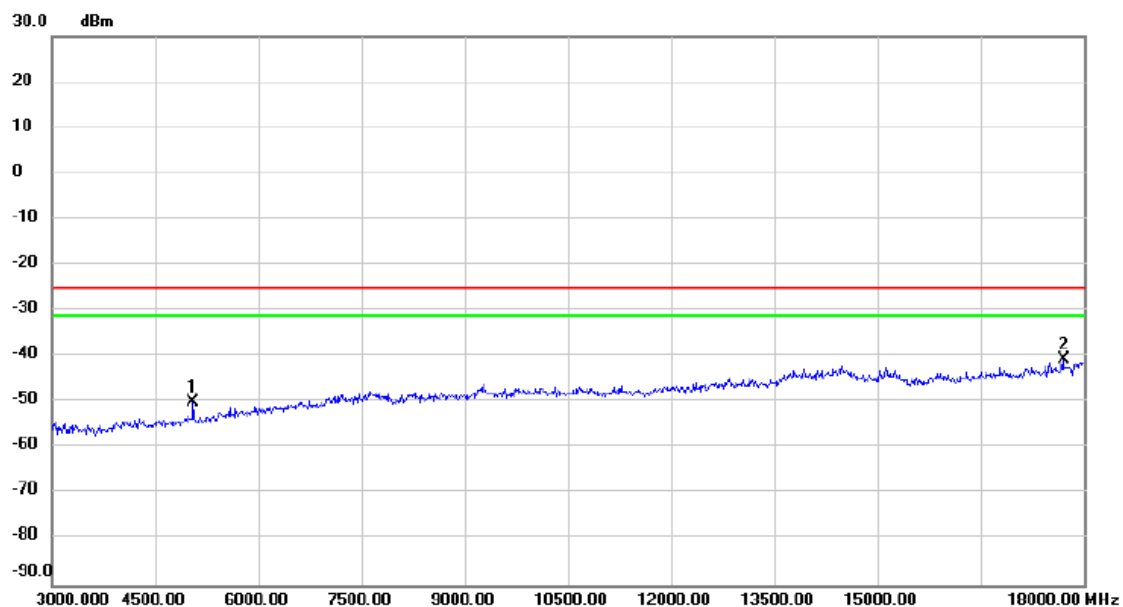
Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 5055.000     | -48.86                  | 4.10                    | -44.76                  | -25.00       | -19.76       | peak     |         |
| 2   | *   | 17872.500    | -59.90                  | 18.99                   | -40.91                  | -25.00       | -15.91       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_20M

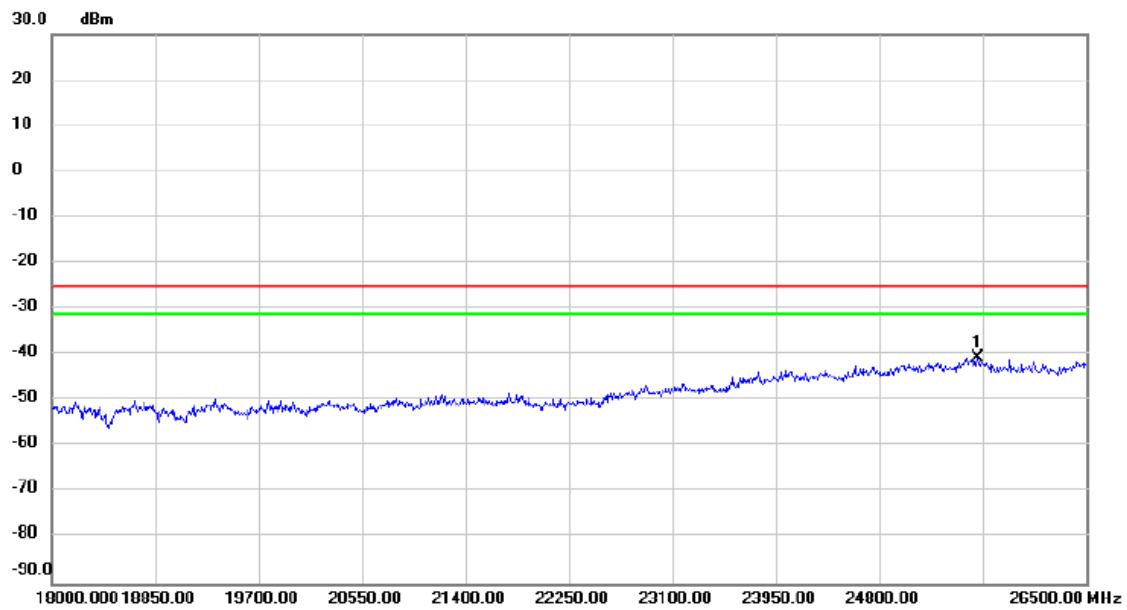
### Horizontal



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   |     | 5055.000     | -53.94                  | 4.10                    | -49.84                  | -25.00       | -24.84       | peak     |         |
| 2   | *   | 17700.000    | -59.08                  | 18.48                   | -40.60                  | -25.00       | -15.60       | peak     |         |

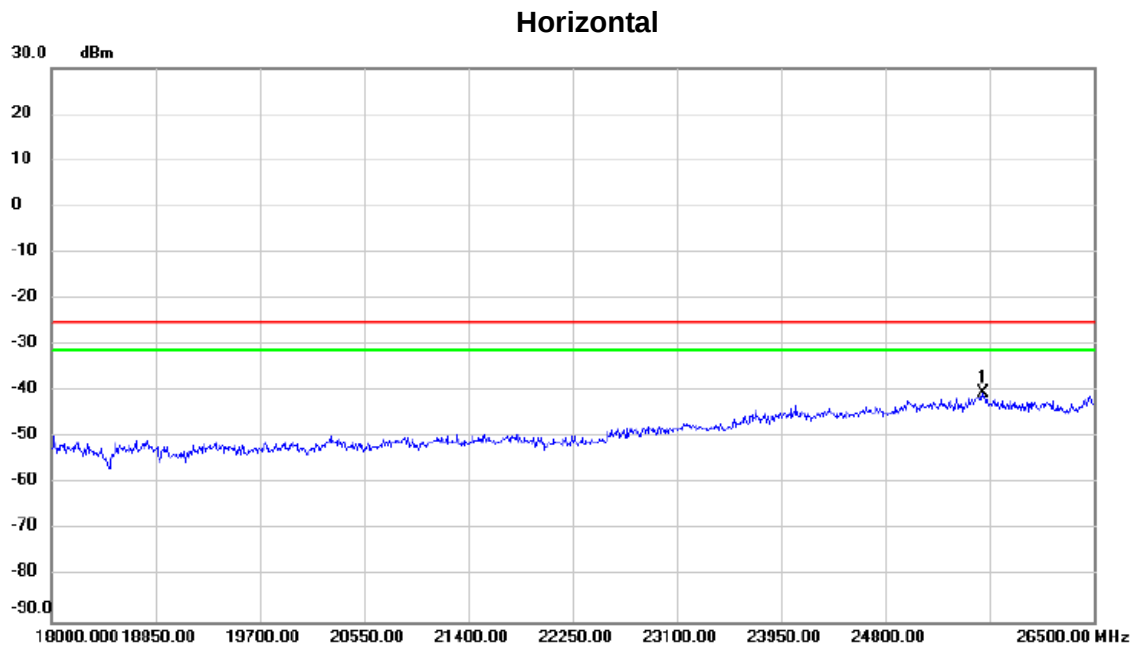
Test Mode: LTE Band 7\_TX CH21100\_20M

Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 25607.500    | -62.58                  | 22.00                   | -40.58                  | -25.00       | -15.58       | peak     |         |

Test Mode: LTE Band 7\_TX CH21100\_20M



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|--------------|----------|---------|
| 1   | *   | 25599.000    | -62.37                  | 22.01                   | -40.36                  | -25.00       | -15.36       | peak     |         |

**End of Test Report**