

### WCDMA Band V CH4132 826.4MHz



#### WCDMA Band V CH4233 846.6MHz



#### WCDMA Band II CH9262 1852.4MHz



#### WCDMA Band II CH9538 1907.6MHz



#### WCDMA Band IV CH1312 1712.4MHz



#### WCDMA Band IV CH1513 1752.6MHz







# 2.7. Transmitter Radiated Power (EIRP/ERP)

## 2.7.1. Requirement

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

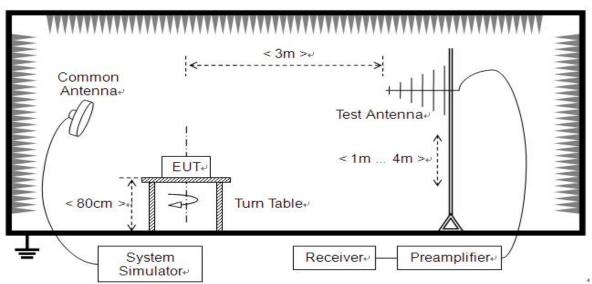
According to FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

According to FCC section 27.50, mobile, and portable (hand-held) stations is limited to 1 Watts e.i.r.p. peak power.

# 2.7.2. Test Description

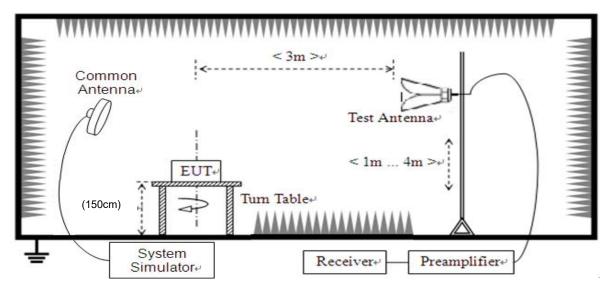
#### Test Setup:

## 1) Below1GHz





### 2) Above 1GHz



The EUT is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded. Please refer to section 2.1.3 of this report.

#### - Step size (dB): 3dB

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.





#### 2.7.3. Test Result

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

Asubst = Psubst\_tx - Psubst\_rx - Lsubst\_cables + Gsubst\_tx\_ant

 $A_{TOT} = L_{CABLES} + A_{SUBST}$ 

Where A<sub>SUBST</sub> is the final substitution correction including receive antenna gain.

P<sub>SUBST TX</sub> is signal generator level,

P<sub>SUBST RX</sub> is receiver level,

L<sub>SUBST\_CABLES</sub> is cable losses including TX cable,

G<sub>SUBST TX</sub> ANT is substitution antenna gain.

A<sub>TOT</sub> is total correction factor including cable loss and substitution correction

During the test, the data of  $A_{TOT}$  was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of  $A_{TOT}$ .



#### **GSM Test verdict:**

| Bond       | Channal | Frequency | DCI | Measu | red ERP | Lim  | it | Vordiet |
|------------|---------|-----------|-----|-------|---------|------|----|---------|
| Band       | Channel | (MHz)     | PCL | dBm   | W       | dBm  | W  | Verdict |
| GSM        | 128     | 824.20    | 5   | 28.63 | 0.729   |      |    | PASS    |
| 850MHz     | 190     | 836.60    | 5   | 28.46 | 0.701   | 38.5 | 7  | PASS    |
| OSOIVII IZ | 251     | 848.80    | 5   | 28.53 | 0.713   |      |    | PASS    |
| GPRS       | 128     | 824.20    | 5   | 28.61 | 0.726   |      |    | PASS    |
| 850MHz     | 190     | 836.60    | 5   | 28.45 | 0.700   | 38.5 | 7  | PASS    |
| OSOIVII IZ | 251     | 848.80    | 5   | 28.56 | 0.718   |      |    | PASS    |
| EDGE       | 128     | 824.20    | 5   | 21.75 | 0.150   |      |    | PASS    |
| 850MHz     | 190     | 836.60    | 5   | 21.93 | 0.156   | 38.5 | 7  | PASS    |
| OJUIVII IZ | 251     | 848.80    | 5   | 21.76 | 0.150   |      |    | PASS    |

**Note 1:** For the GPRS and EDGE model, all the slots were tested and just the worst data were recorded in this report.

**Note 2:** Both horizontal and vertical polarizations of the test antenna are evaluated respectively, only the worst data (horizontal) were recorded in this report.

| Band       | Channal | Frequency |     | Measu | red EIRP | Lim | it | Vordiet |
|------------|---------|-----------|-----|-------|----------|-----|----|---------|
| Band       | Channel | (MHz)     | PCL | dBm   | W        | dBm | W  | Verdict |
| GSM        | 512     | 1850.2    | 0   | 28.56 | 0.718    |     |    | PASS    |
| 1900MHz    | 661     | 1880.0    | 0   | 28.55 | 0.716    | 33  | 2  | PASS    |
| T900MI     | 810     | 1909.8    | 0   | 28.40 | 0.692    |     |    | PASS    |
| GPRS       | 512     | 1850.2    | 0   | 28.52 | 0.711    |     |    | PASS    |
| 1900MHz    | 661     | 1880.0    | 0   | 28.53 | 0.713    | 33  | 2  | PASS    |
| 1900101112 | 810     | 1909.8    | 0   | 28.38 | 0.689    |     |    | PASS    |
| EDGE       | 512     | 1850.2    | 0   | 24.28 | 0.268    |     |    | PASS    |
| 1900MHz    | 661     | 1880.0    | 0   | 24.62 | 0.290    | 33  | 2  | PASS    |
| I SOUMINZ  | 810     | 1909.8    | 0   | 24.58 | 0.287    |     |    | PASS    |

**Note 1:** For the GPRS and EDGE model, all the slots were tested and just the worst data were recorded in this report.

**Note 2:** Both horizontal and vertical polarizations of the test antenna are evaluated respectively, only the worst data (horizontal) were recorded in this report.



#### **WCDMA** Test verdict:

| Band    | Channel | Frequency | Measured ERP |       | quency Measured ERP Limit |   | it      | Verdict |
|---------|---------|-----------|--------------|-------|---------------------------|---|---------|---------|
| Dallu   | Chamile | (MHz)     | dBm          | W     | dBm                       | W | verdict |         |
| WCDMA   | 4132    | 826.4     | 18.23        | 0.067 |                           |   | PASS    |         |
| Band V  | 4182    | 836.4     | 18.18        | 0.066 | 38.5                      | 7 | PASS    |         |
| Dallu V | 4233    | 846.6     | 19.22        | 0.084 |                           |   | PASS    |         |
| HSDPA   | 4132    | 826.4     | 18.19        | 0.066 |                           |   | PASS    |         |
| Band V  | 4182    | 836.4     | 19.20        | 0.083 | 38.5                      | 7 | PASS    |         |
| Dallu V | 4233    | 846.6     | 19.24        | 0.084 |                           |   | PASS    |         |
| HSUPA   | 4132    | 826.4     | 18.19        | 0.066 |                           |   | PASS    |         |
| Band V  | 4182    | 836.4     | 19.20        | 0.083 | 38.5                      | 7 | PASS    |         |
| Dailu V | 4233    | 846.6     | 19.24        | 0.084 |                           |   | PASS    |         |

**Note:** Both horizontal and vertical polarizations of the test antenna are evaluated respectively, only the worst data (horizontal) were recorded in this report.

| Dand             | d Channel Frequ |        | Measure | Measured EIRP |     | it | Vardiat |
|------------------|-----------------|--------|---------|---------------|-----|----|---------|
| Band             | Channel         | (MHz)  | dBm     | W             | dBm | W  | Verdict |
| WCDMA            | 9262            | 1852.4 | 21.08   | 0.128         |     |    | PASS    |
| Band II          | 9400            | 1880.0 | 21.17   | 0.131         | 33  | 2  | PASS    |
| Dallu II         | 9538            | 1907.6 | 21.18   | 0.131         |     |    | PASS    |
| HSDPA            | 9262            | 1852.4 | 21.03   | 0.127         |     |    | PASS    |
| Band II          | 9400            | 1880.0 | 21.18   | 0.131         | 33  | 2  | PASS    |
| Danu II          | 9538            | 1907.6 | 21.19   | 0.132         |     |    | PASS    |
| HCLIDA           | 9262            | 1852.4 | 21.01   | 0.126         |     |    | PASS    |
| HSUPA<br>Band II | 9400            | 1880.0 | 21.20   | 0.132         | 33  | 2  | PASS    |
| Dailu II         | 9538            | 1907.6 | 21.22   | 0.132         |     |    | PASS    |

**Note:** Both horizontal and vertical polarizations of the test antenna are evaluated respectively, only the worst data (horizontal) were recorded in this report.



| Dand     | Dand Channal |        | ency Measured EIRP Limit |       | it  | \/ordint |         |
|----------|--------------|--------|--------------------------|-------|-----|----------|---------|
| Band     | Channel      | (MHz)  | dBm                      | W     | dBm | W        | Verdict |
| WCDMA    | 1312         | 1712.4 | 21.14                    | 0.130 |     |          | PASS    |
| Band IV  | 1413         | 1732.6 | 21.10                    | 0.129 | 33  | 2        | PASS    |
| Danu IV  | 1513         | 1752.6 | 21.03                    | 0.127 |     |          | PASS    |
| HSDPA    | 1312         | 1712.4 | 21.12                    | 0.129 |     |          | PASS    |
| Band IV  | 1413         | 1732.6 | 21.16                    | 0.132 | 33  | 2        | PASS    |
| Danu IV  | 1513         | 1752.6 | 21.05                    | 0.127 |     |          | PASS    |
| HSUPA    | 1312         | 1712.4 | 21.13                    | 0.130 |     |          | PASS    |
| Band IV  | 1413         | 1732.6 | 21.10                    | 0.129 | 33  | 2        | PASS    |
| Dailu IV | 1513         | 1752.6 | 21.01                    | 0.126 |     |          | PASS    |

**Note:** Both horizontal and vertical polarizations of the test antenna are evaluated respectively, only the worst data (horizontal) were recorded in this report.





# 2.8. Radiated Out of Band Emissions

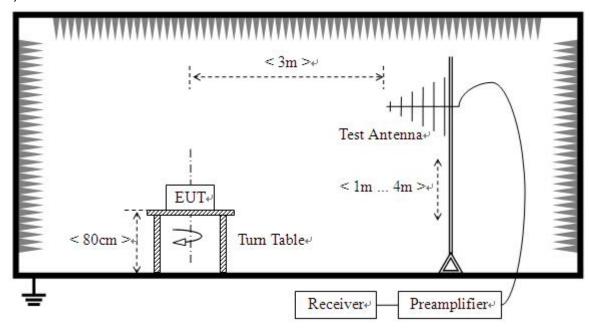
# 2.8.1. Requirement

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

## 2.8.2. Test Description

Test Setup:

1) Below1GHz





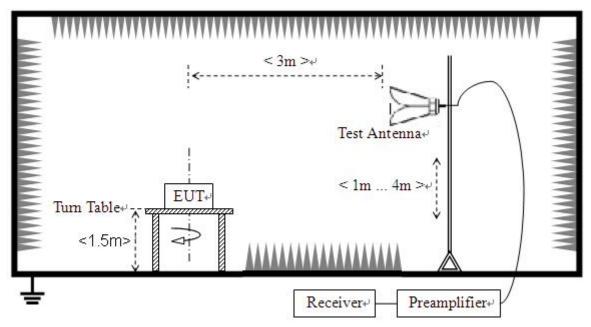
SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,



### 2) Above 1GHz



The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded. Please refer to section 2.1.3 of this report.

- Step size (dB): 3dB

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) and a Horn one (used for above 3 GHz), it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.





#### 2.8.3. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions. The power of the EUT transmitting frequency should be ignored.

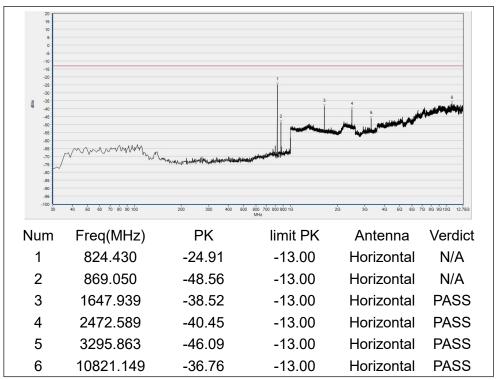
|                  |         |        | Measured Max. Spurious Frequency Emission (dBm) |                       |             |         |
|------------------|---------|--------|---|-----------------------|-------------|---------|
| Band             | Channel | (MHz)  | Test Antenna<br>Horizontal                      | Test Antenna Vertical | Limit (dBm) | Verdict |
|                  | 128     | 824.2  | < -25   | < -25                 |             | PASS    |
| GSM              | 190     | 836.6  | < -25   | < -25                 | -13         | PASS    |
| 850MHz           | 251     | 848.8  | < -25   | < -25                 |             | PASS    |
| 0014             | 512     | 1850.2 | < -25   | < -25                 |             | PASS    |
| GSM<br>1900MHz   | 661     | 1880.0 | < -25   | < -25                 | -13         | PASS    |
| ISOUMINZ         | 810     | 1909.8 | < -25   | < -25                 |             | PASS    |
| EDGE             | 128     | 824.2  | < -25   | < -25                 |             | PASS    |
| 850MHz           | 190     | 836.6  | < -25   | < -25                 | -13         | PASS    |
| OSUMINZ          | 251     | 848.8  | < -25   | < -25                 |             | PASS    |
| EDCE.            | 512     | 1850.2 | < -25   | < -25                 |             | PASS    |
| EDGE<br>1900MHz  | 661     | 1880.0 | < -25   | < -25                 | -13         | PASS    |
| THOUNINZ         | 810     | 1909.8 | < -25   | < -25                 |             | PASS    |
| MODMA            | 4132    | 826.4  | < -25   | < -25                 |             | PASS    |
| WCDMA            | 4182    | 836.4  | < -25   | < -25                 | -13         | PASS    |
| Band V           | 4233    | 846.6  | < -25   | < -25                 |             | PASS    |
| MCDMA            | 9262    | 1852.4 | < -25   | < -25                 |             | PASS    |
| WCDMA<br>Band II | 9400    | 1880.0 | < -25   | < -25                 | -13         | PASS    |
| Danu ii          | 9538    | 1907.6 | < -25   | < -25                 |             | PASS    |

**Note 1:** All test mode and condition mentioned were considered and evaluated respectively by performing full test, only the worst data were recorded and reported.

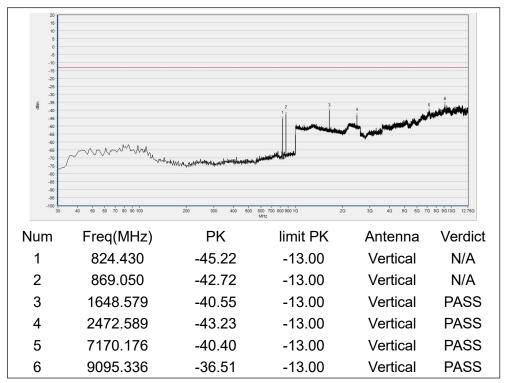
**Note 2:** All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.







(GSM 850MHz, Channel = 128, Horizontal)



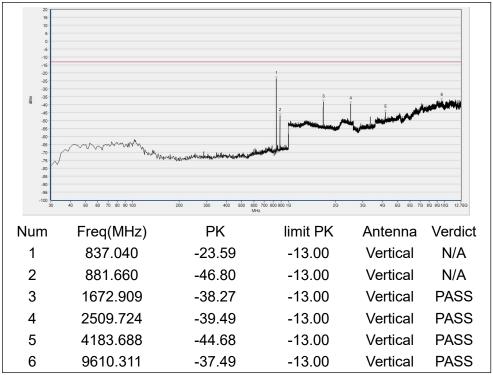
(GSM 850MHz, Channel = 128, Vertical)







(GSM850MHz, Channel = 190, Horizontal)

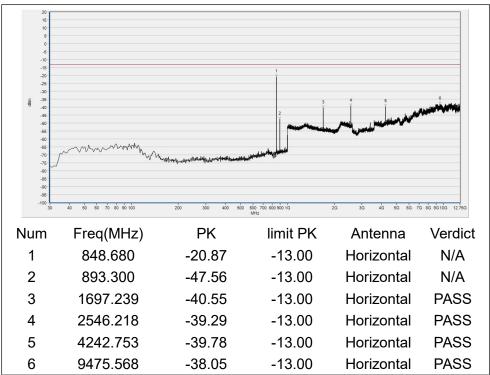


(GSM 850MHz, Channel = 190, Vertical)

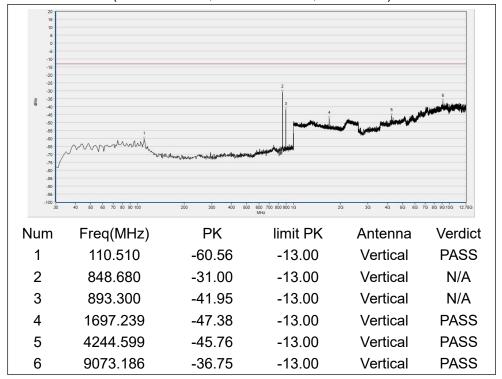


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(GSM 850MHz, Channel = 251, Horizontal)



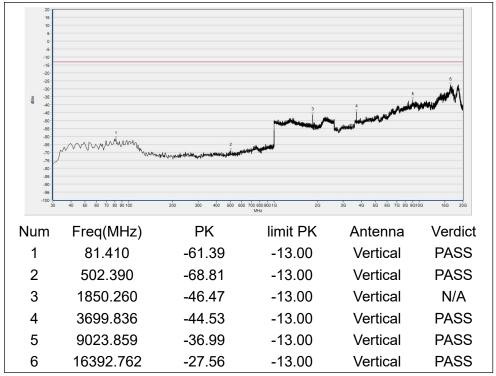
(GSM 850MHz, Channel = 251, Vertical)







(GSM 1900MHz, Channel = 512, Horizontal)



(GSM 1900MHz, Channel = 512, Vertical)

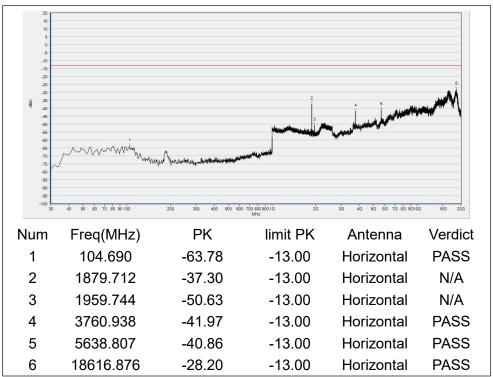
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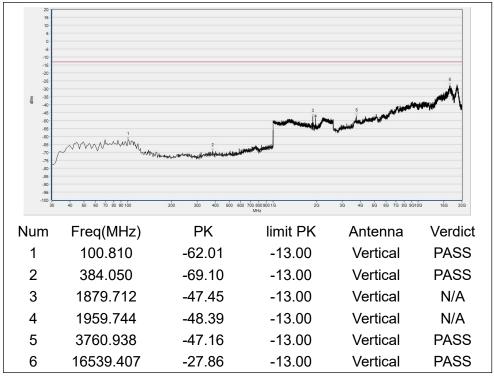
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,







(GSM 1900MHz, Channel = 661, Horizontal)



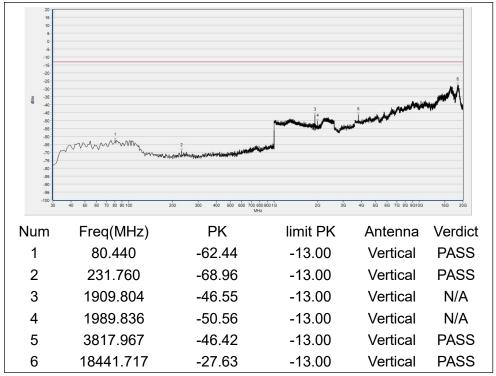
(GSM 1900MHz, Channel = 661, Vertical)







(GSM 1900MHz, Channel = 810, Horizontal)



(GSM 1900MHz, Channel = 810, Vertical)

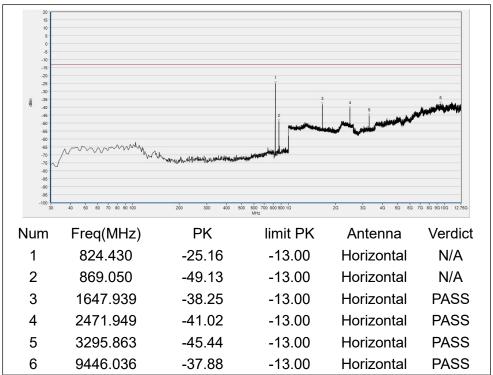
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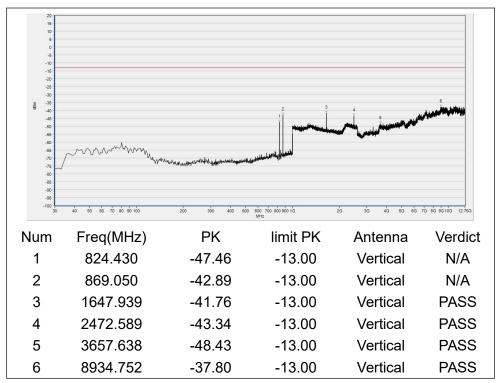
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,







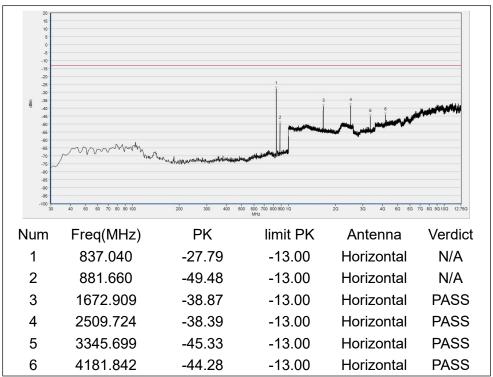
(EDGE 850MHz, Channel = 128, Horizontal)



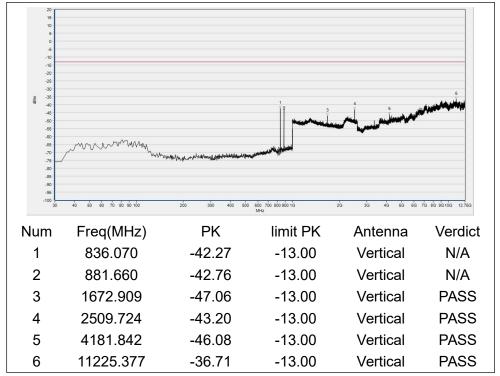
(EDGE 850MHz, Channel = 128, Vertical)







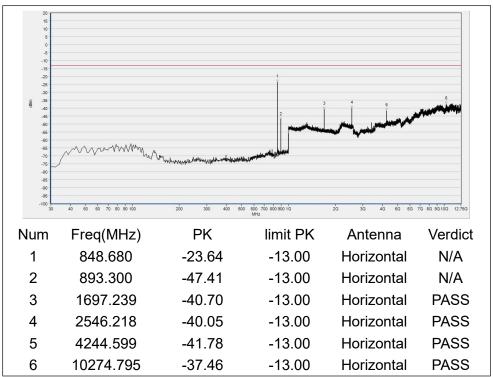
(EDGE 850MHz, Channel = 190, Horizontal)



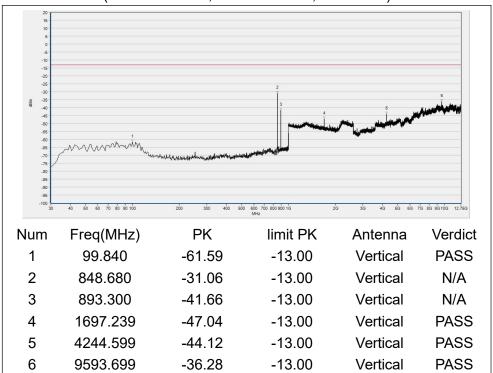
(EDGE 850MHz, Channel = 190, Vertical)







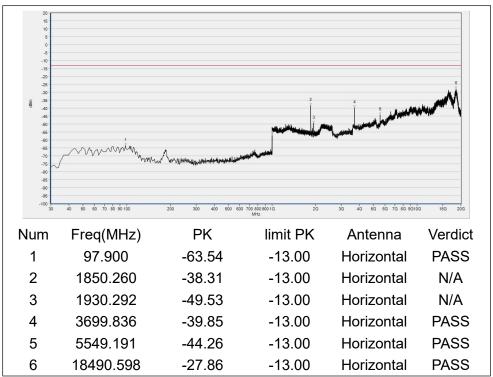
(EDGE 850MHz, Channel = 251, Horizontal)



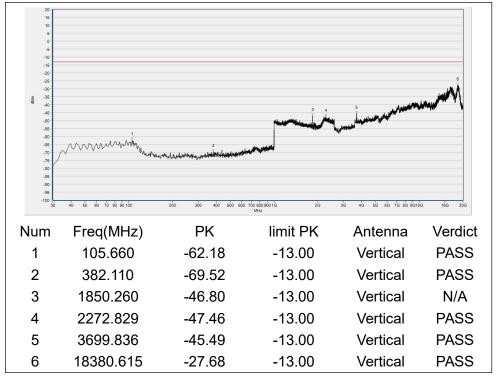
(EDGE 850MHz, Channel = 251, Vertical)







(EDGE 1900MHz, Channel = 512, Horizontal)



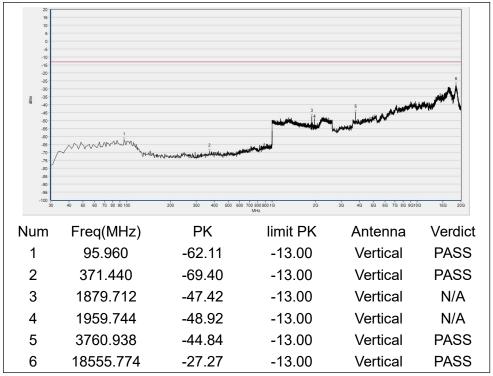
(EDGE 1900MHz, Channel = 512, Vertical)







(EDGE 1900MHz, Channel = 661, Horizontal)



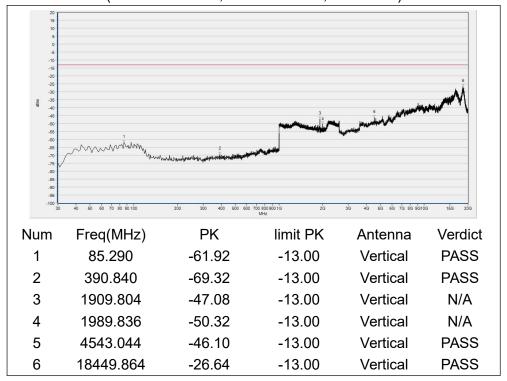
(EDGE 1900MHz, Channel = 661, Vertical)







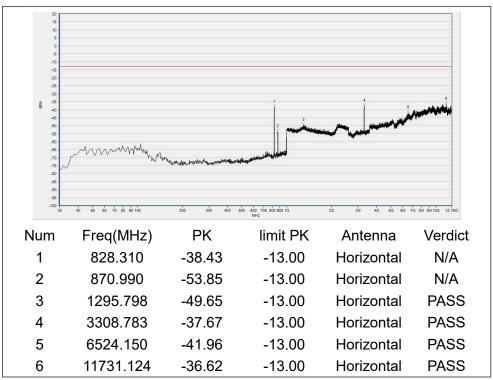
(EDGE 1900MHz, Channel = 810, Horizontal)



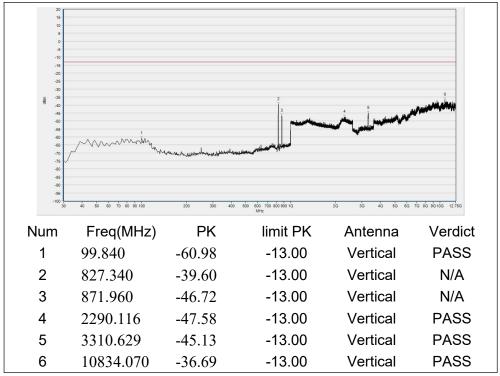
(EDGE 1900MHz, Channel = 810, Vertical)







(WCDMA Band V, Channel = 4132, Horizontal)



(WCDMA Band V, Channel = 4132, Vertical)

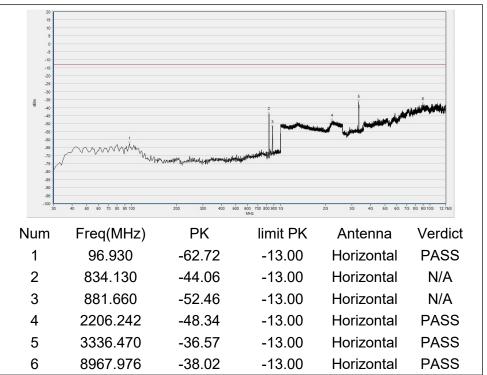
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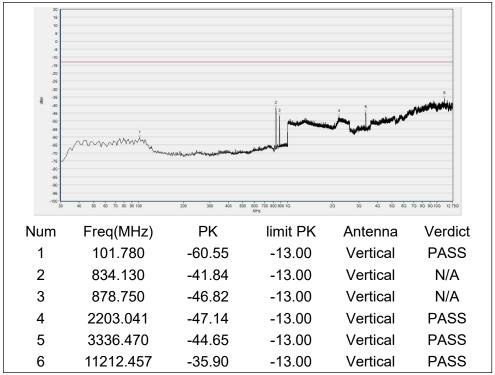
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,







(WCDMA Band V, Channel = 4182, Horizontal)



(WCDMA Band V, Channel = 4182, Vertical)

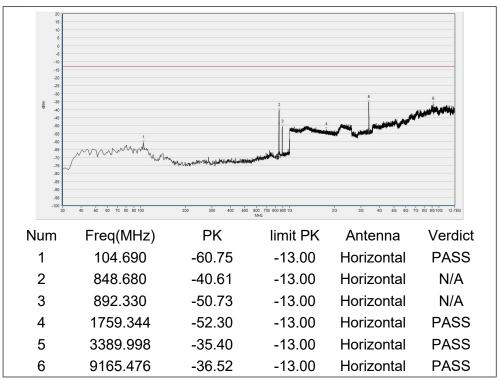
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Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

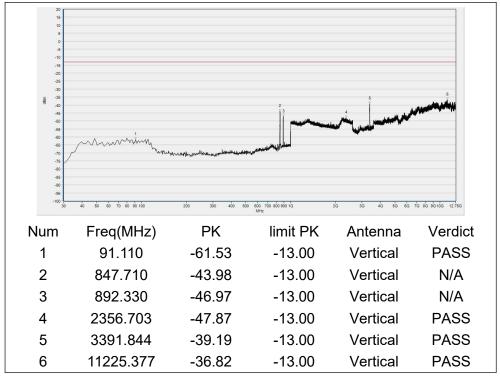
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,







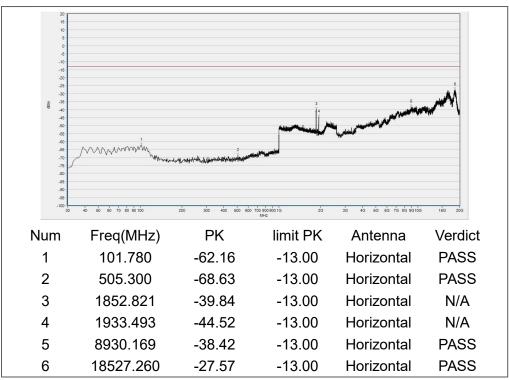
(WCDMA Band V, Channel = 4233, Horizontal)



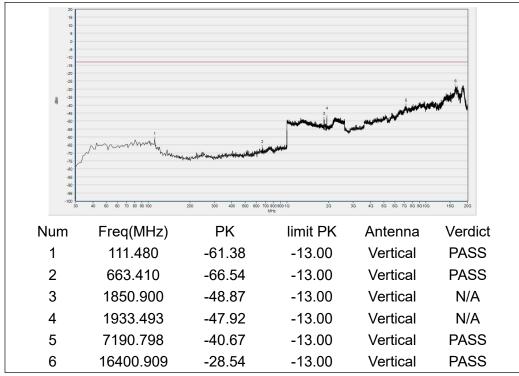
(WCDMA Band V, Channel = 4233, Vertical)







(WCDMA Band II, Channel = 9262, Horizontal)



(WCDMA Band II, Channel = 9262, Vertical)

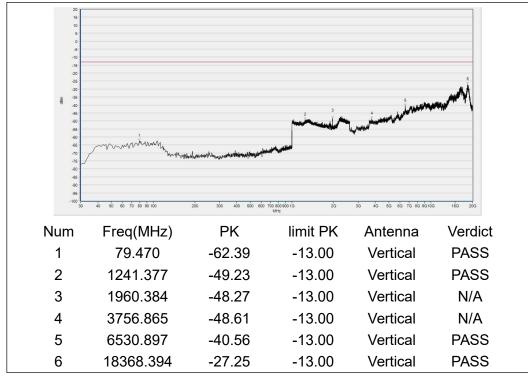


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(WCDMA Band II, Channel = 9400, Horizontal)



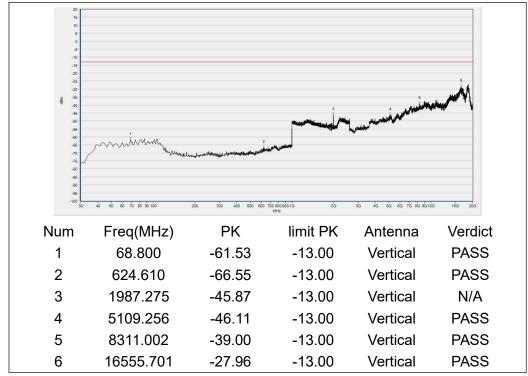
(WCDMA Band II, Channel = 9400, Vertical)







(WCDMA Band II, Channel = 9538, Horizontal)



(WCDMA Band II, Channel = 9538, Vertical)







(WCDMA Band IV, Channel = 1312, Horizontal)



(WCDMA Band IV, Channel = 1312, Vertical)

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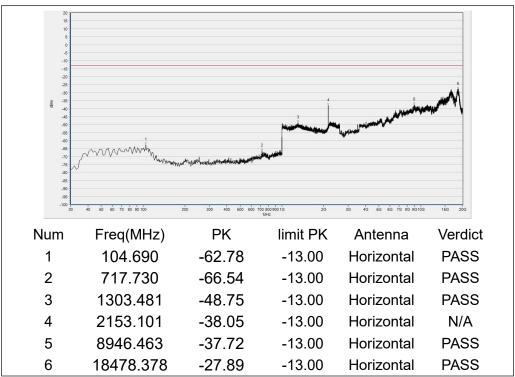
(WCDMA Band IV, Channel = 1413, Horizontal)



(WCDMA Band IV, Channel = 1413, Vertical)







(WCDMA Band IV, Channel = 1513, Horizontal)



(WCDMA Band IV, Channel = 1513, Vertical)





# **Annex A Test Uncertainty**

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

| Test items                  | Uncertainty |
|-----------------------------|-------------|
| Output Power                | ±2.22dB     |
| Bandwidth                   | ±5%         |
| Conducted Spurious Emission | ±2.77 dB    |
| Radiated Emission           | ±2.95dB     |

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2



Tel: 86-755-36698555

Http://www.morlab.cn



# **Annex B Testing Laboratory Information**

## 1. Identification of the Responsible Testing Laboratory

| Laboratory Name:    | Shenzhen Morlab Communications Technology Co., Ltd.    |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|--|
|                     | Morlab Laboratory                                      |  |  |  |  |  |  |
| Laboratory Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang |  |  |  |  |  |  |
|                     | Road, Block 67, BaoAn District, ShenZhen, GuangDong    |  |  |  |  |  |  |
|                     | Province, P. R. China                                  |  |  |  |  |  |  |
| Telephone:          | +86 755 36698555                                       |  |  |  |  |  |  |
| Facsimile:          | +86 755 36698525                                       |  |  |  |  |  |  |

## 2. Identification of the Responsible Testing Location

| Name:    | Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory |
|----------|---|
|          | FL.3, Building A, FeiYang Science Park, No.8 LongChang                |
| Address: | Road, Block 67, BaoAn District, ShenZhen, GuangDong                   |
|          | Province, P. R. China   |

#### 3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





# 4. Test Equipments Utilized

# **4.1 Conducted Test Equipments**

| <b>Equipment Name</b>     | Serial No. | Type            | Manufacturer                                   | Cal. Date  | Cal. Due   |
|---------------------------|------------|-----------------|--|------------|------------|
| Power Splitter            | NW521      | 1506A           | Weinschel                                      | 2018.04.17 | 2019.04.16 |
| Attenuator 1              | (N/A.)     | 10dB            | Resnet   | 2018.04.17 | 2019.04.16 |
| Attenuator 2              | (N/A.)     | 3dB             | Resnet   | 2018.04.17 | 2019.04.16 |
| EXA Signal<br>Analzyer    | MY53470836 | N9010A          | Agilent  | 2018.11.06 | 2019.11.05 |
| Wireless synthesizer      | MY48364176 | 8960<br>-E5515C | Agilent  | 2018.04.17 | 2019.04.16 |
| RF cable<br>(30MHz-26GHz) | CB01       | RF01            | Morlab   | N/A        | N/A        |
| Coaxial cable             | CB02       | RF02            | Morlab   | N/A        | N/A        |
| SMA connector             | CN01       | RF03            | HUBER-SUHNER                                   | N/A        | N/A        |
| Temperature<br>Chamber    | (N/A)      | HUT705P         | CHONGQING HANBA EXPERIMENTAL EQUIPMENT CO.,LTD | 2018.04.17 | 2019.04.16 |
| Computer                  | T430i      | Think Pad       | Lenovo   | N/A        | N/A        |



# **4.2 Radiated Test Equipments**

| Equipment<br>Name                          | Serial No. | Туре               | Manufacturer      | Cal. Date  | Cal. Due   |
|--|------------|--------------------|-------------------|------------|------------|
| System Simulator                           | 152038     | CMW500             | R&S               | 2018.08.04 | 2019.08.03 |
| Receiver                                   | MY54130016 | N9038A             | Agilent           | 2018.05.18 | 2019.05.17 |
| Test Antenna -<br>Bi-Log                   | 9163-519   | VULB 9163          | Schwarzbeck       | 2018.05.18 | 2019.05.17 |
| Test Antenna -<br>Horn                     | 9170C-531  | BBHA9170           | Schwarzbeck       | 2018.08.06 | 2019.08.05 |
| Test Antenna -<br>Horn                     | 01774      | BBHA 9120D         | Schwarzbeck       | 2018.08.02 | 2019.08.01 |
| Coaxial cable<br>(N male)<br>(9KHz-30MHz)  | CB04       | EMC04              | Morlab            | N/A        | N/A        |
| Coaxial cable<br>(N male)<br>(30MHz-26GHz) | CB02       | EMC02              | Morlab            | N/A        | N/A        |
| Coaxial cable<br>(N male)<br>(30MHz-26GHz) | CB03       | EMC03              | Morlab            | N/A        | N/A        |
| 1-18GHz<br>pre-Amplifier                   | MA02       | TS-PR18            | Rohde&<br>Schwarz | 2018.05.08 | 2019.05.07 |
| 18-26.5GHz<br>pre-Amplifier                | MA03       | TS-PR18            | Rohde&<br>Schwarz | 2018.05.08 | 2019.05.07 |
| Notch Filter                               | N/A        | WRCG-GSM<br>850    | Wainwright        | 2018.12.01 | 2019.11.30 |
| Notch Filter                               | N/A        | WRCG-GSM<br>1900   | Wainwright        | 2018.12.01 | 2019.11.30 |
| Notch Filter                               | N/A        | WRCGV-W<br>Band V  | Wainwright        | 2018.12.01 | 2019.11.30 |
| Notch Filter                               | N/A        | WRCGV-W<br>Band II | Wainwright        | 2018.12.01 | 2019.11.30 |
| Notch Filter                               | N/A        | WRCGV-W<br>Band IV | Wainwright        | 2018.12.01 | 2019.11.30 |
| Anechoic<br>Chamber                        | N/A        | 9m*6m*6m           | CRT               | 2017.11.19 | 2020.11.18 |

| END OF REPORT |  |
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