



BUREAU
VERITAS

Test Report No.: W7L-P23070009-2RF01



Certificate #6613.01

VARIANT FCC TEST REPORT

(PART 22)



| | |
|------------|---|
| Applicant: | SIMCom Wireless Solutions Limited |
| Address: | Building 3, No.289 Linhong Road Shanghai China 200335 |

| | |
|---------------------------|---|
| Manufacturer or Supplier: | SIMCom Wireless Solutions Limited |
| Address: | Building 3, No.289 Linhong Road Shanghai China 200335 |
| Product: | SIM7672NA |
| Brand Name: | SIMCom |
| Model Name: | SIM7672NA |
| FCC ID: | 2AJYU-8XS0003 |
| Date of tests: | Aug. 22, 2023 ~ Nov. 01, 2023 |

The tests have been carried out according to the requirements of the following standard:

- FCC PART 22, Subpart H
- ANSI/TIA/EIA-603-D
- ANSI/TIA/EIA-603-E
- FCC Part 2
- ANSI C63.26-2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|--|--|
| Prepared by Chao Wu Engineer / Mobile Department | Approved by Peibo Sun Manager / Mobile Department |
|  Date: Nov. 01, 2023 |  Date: Nov. 01, 2023 |

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TABLE OF CONTENTS

RELEASE CONTROL RECORD 4

1 SUMMARY OF TEST RESULTS 5

1.1 MEASUREMENT UNCERTAINTY 7

1.2 TEST SITE AND INSTRUMENTS 8

2 GENERAL INFORMATION 10

2.1 GENERAL DESCRIPTION OF EUT 10

2.2 CONFIGURATION OF SYSTEM UNDER TEST 12

2.3 DESCRIPTION OF SUPPORT UNITS 13

2.4 TEST ITEM AND TEST CONFIGURATION 13

2.5 EUT OPERATING CONDITIONS 15

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS 16

3 TEST TYPES AND RESULTS 17

3.1 OUTPUT POWER MEASUREMENT 17

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT 17

3.1.2 TEST PROCEDURES 17

3.1.3 TEST SETUP 18

3.1.4 TEST RESULTS 18

3.2 FREQUENCY STABILITY MEASUREMENT 23

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT 23

3.2.2 TEST PROCEDURE 23

3.2.3 TEST SETUP 23

3.2.4 TEST RESULTS 24

3.3 OCCUPIED BANDWIDTH MEASUREMENT 25

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT 25

3.3.2 TEST SETUP 25

3.3.3 TEST PROCEDURES 25

3.3.4 TEST RESULTS 26

3.4 BAND EDGE MEASUREMENT 27

3.4.1 LIMITS OF BAND EDGE MEASUREMENT 27

3.4.2 TEST SETUP 27

3.4.3 TEST PROCEDURES 28

3.4.4 TEST RESULTS 29

3.5 CONDUCTED SPURIOUS EMISSIONS 30

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT 30

3.5.2 TEST PROCEDURE 30

3.5.3 TEST SETUP 30

3.5.4 TEST RESULTS 31

3.6 RADIATED EMISSION MEASUREMENT 32

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT 32

3.6.2 TEST PROCEDURES 32

3.6.3 DEVIATION FROM TEST STANDARD 32

3.6.4 TEST SETUP 33

3.6.5 TEST RESULTS 35



**BUREAU
VERITAS**

Test Report No.: W7L-P23070009-2RF01

| | | |
|----------|--|-----------|
| 3.7 | PEAK TO AVERAGE RATIO | 49 |
| 3.7.1 | LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT | 49 |
| 3.7.2 | TEST SETUP | 49 |
| 3.7.3 | TEST PROCEDURES | 49 |
| 3.7.4 | TEST RESULTS | 50 |
| 4 | PHOTOGRAPHS OF THE TEST CONFIGURATION | 51 |
| 5 | INFORMATION ON THE TESTING LABORATORIES | 52 |
| 6 | MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB | 53 |



**BUREAU
VERITAS**

Test Report No.: W7L-P23070009-2RF01

RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---------------------|---|---------------|
| W7L-P23070009RF01 | Original release | Sep. 11, 2023 |
| W7L-P23070009-2RF01 | Based on the original report product changing the model name and FCC ID, add LTE Band 14, remove LTE Band 7/25/26/38/41, The new sample verify LTE Band 5 RSE worse case. | Nov. 01, 2023 |



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 22 & Part 2 | | |
|--|------------------------------|------------|
| STANDARD SECTION | TEST TYPE | RESULT |
| §2.1046 | Conducted Output Power | See note 1 |
| §22.913 (a)(5) | Effective Radiated Power | See note 1 |
| §2.1055 §22.355 | Frequency Stability | See note 1 |
| §2.1049 | Occupied Bandwidth | See note 1 |
| §22.913 (d) | Peak to average ratio* | See note 1 |
| §22.917(a) | Band Edge Measurements | See note 1 |
| §2.1051 §22.917(a) | Conducted Spurious Emissions | See note 1 |
| §2.1053 §22.917(a) | Radiated Spurious Emissions | Compliance |

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

Note:

- 1.This report refers to the data of W7L-P23070009RF01 (FCC ID: 2AJYU-8XS0001, model: SIM7672G) .
2. List of the maximum change values(worse case) in the test item results as follows

| Test Item / Report No. | W7L-P23070009RF01(Note 2) | W7L-P23070009-2RF01 |
|---------------------------------------|---------------------------------|------------------------------|
| Radiated Emission Test (30MHz ~ 1GHz) | LTE Band 26 Margin:-6.51dB | LTE Band 5 Margin:46.83dB |
| Radiated Emission Test (Above 1GHz) | LTE Band 26 Margin: -27.94dB | LTE Band 5 Margin:38.23dB |

Remark:

1. All validation data are within increase of below to 3 dB, the result is better than original data.
2. LTE Band 5 are covered by LTE Band 26.



Test Report No.: W7L-P23070009-2RF01

***Test Lab Information Reference**

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.



1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | UNCERTAINTY |
|-----------------------------------|-------------|
| Maximum Peak Output Power | ±2.06dB |
| Frequency Stability | ±76.97Hz |
| Radiated emissions (9KHz~30MHz) | ±2.68dB |
| Radiated emissions (30MHz~1GHz) | ±4.98dB |
| Radiated emissions (1GHz ~6GHz) | ±4.70dB |
| Radiated emissions (6GHz ~18GHz) | ±4.60dB |
| Radiated emissions (18GHz ~40GHz) | ±4.12dB |
| Conducted emissions | ±4.01dB |
| Occupied Channel Bandwidth | ±43.58KHz |
| Band Edge Measurements | ±4.70dB |
| Peak to average ratio | ±0.76dB |

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



1.2 TEST SITE AND INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---------------------------------------|----------------------------|----------------------|---------------------------|-----------|-----------|
| Pre-Amplifier | R&S | SCU18F1 | 100815 | Aug.30,22 | Aug.29,24 |
| Pre-Amplifier | R&S | SCU08F1 | 101028 | Sep.16,22 | Sep.15,24 |
| Vector Signal Generator | R&S | SMBV100B | 102176 | Feb.16,22 | Feb.15,24 |
| Signal Generator | R&S | SMB100A | 182185 | Feb.16,22 | Feb.15,24 |
| 3m Fully-anechoic Chamber | TDK | 9m*6m*6m | HRSW-SZ-E MC-01Chamber | Nov.25,22 | Nov.24,25 |
| 3m Semi-anechoic Chamber | TDK | 9m*6m*6m | HRSW-SZ-E MC-02Chamber | Nov.25,22 | Nov.24,25 |
| EMI TEST Receiver | R&S | ESR26 | 101734 | Feb.25,22 | Feb.24,24 |
| EMI TEST Receiver | R&S | ESW44 | 101973 | Feb.25,22 | Feb.24,24 |
| Bilog Antenna | SCHWARZBECK | VULB 9163 | 1264 | Feb.28,22 | Feb.27,24 |
| Horn Antenna | ETS-LINDGREN | 3117 | 227836 | Aug.22,22 | Aug.21,24 |
| Horn Antenna (18GHz-40GHz) | Steatite Q-par Antennas | QMS 00880 | 23486 | Feb.23,22 | Feb.22,24 |
| Horn Antenna | Steatite Q-par Antennas | QMS 00208 | 23485 | Aug.22,22 | Aug.21,24 |
| Loop Antenna | SCHWARZ | HFH2-Z2/Z2E | 100976 | Feb.23,22 | Feb.22,24 |
| WIDEBANDRADIO COMMUNICATION TESTER | R&S | CMW500 | 169399 | Jun.27,22 | Jun.26,24 |
| Test Software | EMC32 | EMC32 | N/A | N/A | N/A |
| Test Software | ELEKTRA | ELEKTRA4.32 | N/A | N/A | N/A |
| Open Switch and Control Unit | R&S | OSP220 | 101964 | Oct.01,22 | Sep.30,24 |
| DC Source | HYELEC | HY3010B | 551016 | Aug.31,22 | Aug.30,24 |
| Hygrothermograph | DELI | 20210528 | SZ014 | Sep.06,22 | Sep.05,24 |
| PC | LENOVO | E14 | HRSW0024 | N/A | N/A |
| TMC-AMI18843A(CABLE) | R&S | HF290-NMNM -7.00M | N/A | N/A | N/A |
| TMC-AMI18843A(CABLE) | R&S | HF290-NMNM -4.00M | N/A | N/A | N/A |
| CABLE | R&S | W13.02 | N/A | Apr.28,23 | Oct.27,23 |
| CABLE | R&S | W13.02 | N/A | Oct.27,23 | Apr.26,24 |
| CABLE | R&S | W12.14 | N/A | Apr.28,23 | Oct.27,23 |
| CABLE | R&S | W12.14 | N/A | Oct.27,23 | Apr.26,24 |
| CABLE | R&S | J12J103539-0 0-1 | SEP-03-20- 069 | Apr.28,23 | Oct.27,23 |
| CABLE | R&S | J12J103539-0 0-1 | SEP-03-20- 069 | Oct.27,23 | Apr.26,24 |
| CABLE | R&S | J12J103539-0 0-1 | SEP-03-20- 070 | Apr.28,23 | Oct.27,23 |
| CABLE | R&S | J12J103539-0 0-1 | SEP-03-20- 070 | Oct.27,23 | Apr.26,24 |
| Temperature Chamber | votsch | VT4002 | 5856607810 0050 | May.31,22 | May.30,24 |

NOTE: 1. The calibration interval of the above test instruments is 6 months or 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



**BUREAU
VERITAS**

Test Report No.: W7L-P23070009-2RF01

2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | |
|---------------------------------|---|---------------------|
| PRODUCT* | SIM7672NA | |
| BRAND NAME* | SIMCom | |
| MODEL NAME* | SIM7672NA | |
| NOMINAL VOLTAGE* | EUT 3.8V | |
| MODULATION TYPE * | LTE | QPSK, 16QAM |
| FREQUENCY RANGE | LTE Band 5 (Channel Bandwidth: 1.4MHz) | 824.7MHz ~ 848.3MHz |
| | LTE Band 5 (Channel Bandwidth: 3MHz) | 825.5MHz ~ 847.5MHz |
| | LTE Band 5 (Channel Bandwidth: 5MHz) | 826.5MHz ~ 846.5MHz |
| | LTE Band 5 (Channel Bandwidth: 10MHz) | 829MHz ~ 844MHz |
| MAX. ERP POWER | LTE Band 5 (Channel Bandwidth: 1.4MHz) | 150.31mW |
| | LTE Band 5 (Channel Bandwidth: 3MHz) | 150.66mW |
| | LTE Band 5 (Channel Bandwidth: 5MHz) | 149.97mW |
| | LTE Band 5 (Channel Bandwidth: 10MHz) | 151.01mW |
| EMISSION DESIGNATOR GOGN | See note5 | |
| ANTENNA TYPE* | Monopole Antenna with 0.64dBi gain for LTE B5 | |
| HW VERSION* | V2.02 | |
| SW VERSION* | SIM7672M5A | |
| I/O PORTS* | Refer to user's manual | |
| CABLE SUPPLIED* | N/A | |
| EXTREME TEMPERATURE* | -10-55 °C | |
| EXTREME VOLTAGE* | 3.2V - 4.2V | |

NOTE:

- *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

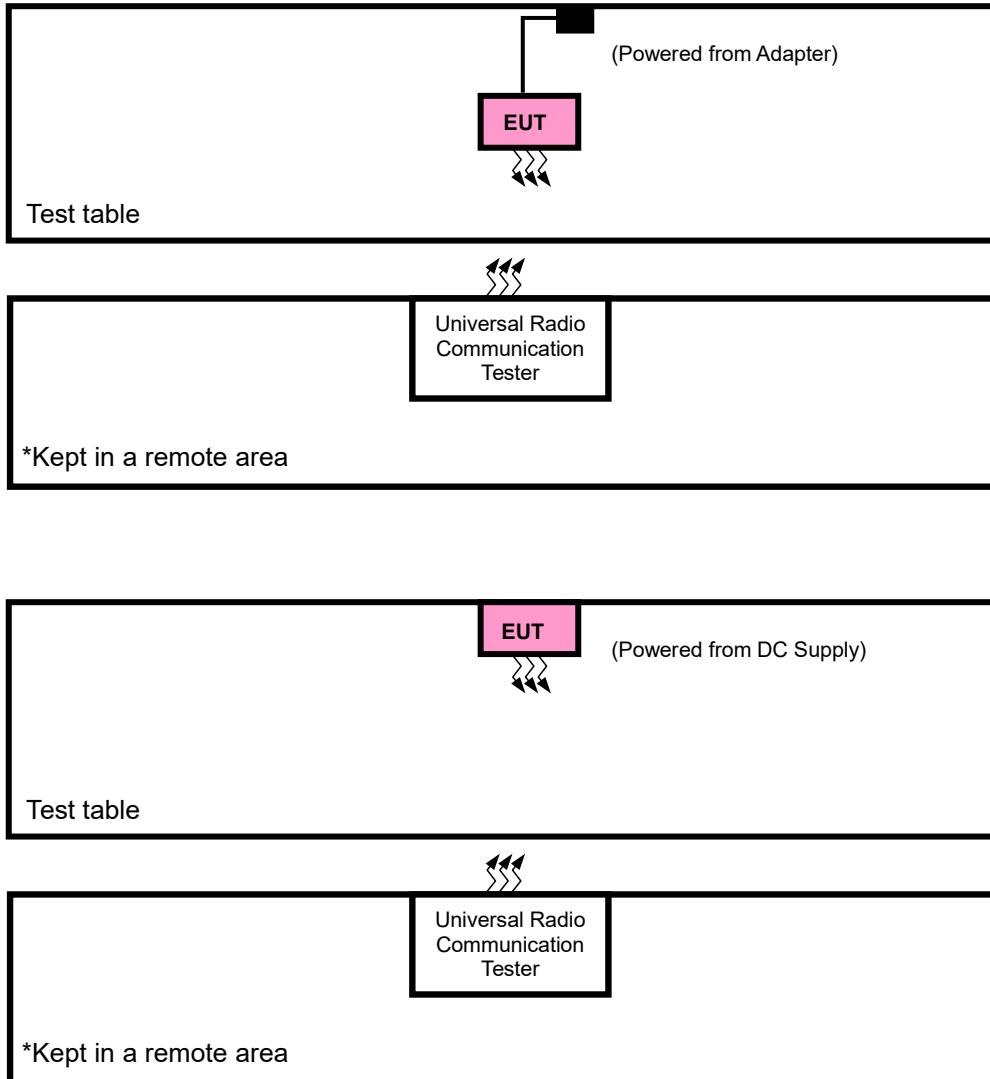


| MODULATION MODE | TX FUNCTION |
|------------------------|--------------------|
| LTE | 1TX/1RX |

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION





2.3 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.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|-----------|--------|-----------|------------|--------|
| 1 | DC source | HYELEC | HY3010B | 551016 | N/A |
| 2 | Adapter | N/A | N/A | N/A | N/A |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | DC Line: Unshielded, Detachable 1.0m |
| 2 | USB Line: Shielded, Detachable 1.0m; |

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP and radiated emission was found when positioned on X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

| EUT CONFIGURE MODE | DESCRIPTION |
|--------------------|-------------------------------|
| A | EUT + Adapter with LTE link |
| B | EUT + DC Supply with LTE link |



LTE BAND 5 MODE

| EUT CONFIGURE MODE | TEST ITEM | Available Channel | Tested Channel | Channel bandwidth | modulation | mode |
|--------------------|-------------------|-------------------|---------------------|-------------------|------------|--------------------|
| A | ERP | 20407 to 20643 | 20407, 20525, 20643 | 1.4MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| | | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK,16QAM | 1 RB / 0 RB Offset |
| A | RADIATED EMISSION | 20407 to 20643 | 20525 | 1.4MHz | QPSK | 1 RB / 0 RB Offset |
| | | 20415 to 20635 | 20525 | 3MHz | QPSK | 1 RB / 0 RB Offset |
| | | 20425 to 20625 | 20525 | 5MHz | QPSK | 1 RB / 0 RB Offset |
| | | 20450 to 20600 | 20450,20525,20600 | 10MHz | QPSK | 1 RB / 0 RB Offset |

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 5 are covered by LTE Band 26, Because it is a subset of LTE Band 26 with the same output power and supported bandwidths, So the test data please refer to LTE Band 26 (refer to the data of report W7L-P23070009 (FCC ID: 2AJYU-8XS0001, model: SIM7672G) .



TEST CONDITION:

| TEST ITEM | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|-------------------|--------------------------|-------------|-----------|
| ERP | 23deg. C, 70%RH | EUT 3.8V | Chao Wu |
| RADIATED EMISSION | 23deg. C, 70%RH | EUT 3.8V | Chao Wu |

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.



2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.



3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_{T} = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_{C} = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

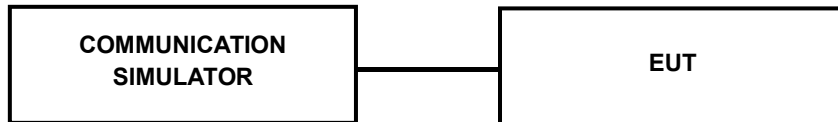
The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

LTE Band 5

| Band/BW | Modulation | RB Size | RB Offset | Low CH 20407 | Mid CH 20525 | High CH 20643 |
|---------|------------|---------|-----------|------------------------|------------------------|------------------------|
| | | | | Frequency 824.7 MHz | Frequency 836.5 MHz | Frequency 848.3 MHz |
| 5/ 1.4 | QPSK | 1 | 0 | 22.39 | 23.12 | 23.28 |
| | | 1 | 2 | 22.85 | 22.90 | 23.26 |
| | | 1 | 5 | 23.19 | 22.70 | 22.39 |
| | | 3 | 0 | 22.25 | 22.73 | 22.82 |
| | | 3 | 1 | 22.54 | 22.58 | 22.79 |
| | | 3 | 3 | 22.84 | 22.35 | 22.54 |
| | 16QAM | 6 | 0 | 21.93 | 22.03 | 22.04 |
| | | 1 | 0 | 21.57 | 22.42 | 22.44 |
| | | 1 | 2 | 21.98 | 22.38 | 22.41 |
| | | 1 | 5 | 22.11 | 22.20 | 22.63 |
| | | 3 | 0 | 22.28 | 22.87 | 22.80 |
| | | 3 | 1 | 22.40 | 22.79 | 22.84 |
| | | 3 | 3 | 22.49 | 22.80 | 22.98 |
| | | 6 | 0 | 20.82 | 21.21 | 21.30 |



| Band/BW | Modulation | RB Size | RB Offset | Low CH 20415 | Mid CH 20525 | High CH 20635 |
|---------|------------|---------|-----------|---------------------|---------------------|---------------------|
| | | | | Frequency 825.5 MHz | Frequency 836.5 MHz | Frequency 847.5 MHz |
| 5/ 3 | QPSK | 1 | 0 | 22.42 | 23.17 | 23.24 |
| | | 1 | 7 | 22.88 | 22.89 | 23.29 |
| | | 1 | 14 | 23.18 | 22.66 | 22.43 |
| | | 8 | 0 | 21.62 | 22.16 | 22.26 |
| | | 8 | 3 | 21.97 | 22.00 | 22.24 |
| | | 8 | 7 | 22.27 | 21.78 | 21.92 |
| | | 15 | 0 | 21.95 | 22.04 | 22.10 |
| | 16QAM | 1 | 0 | 21.65 | 22.35 | 22.43 |
| | | 1 | 7 | 22.00 | 22.40 | 22.51 |
| | | 1 | 14 | 22.11 | 22.20 | 22.61 |
| | | 8 | 0 | 21.69 | 22.29 | 22.26 |
| | | 8 | 3 | 21.81 | 22.19 | 22.22 |
| | | 8 | 7 | 21.87 | 22.18 | 22.39 |
| | | 15 | 0 | 20.83 | 21.22 | 21.28 |

| Band/BW | Modulation | RB Size | RB Offset | Low CH 20425 | Mid CH 20525 | High CH 20625 |
|---------|------------|---------|-----------|---------------------|---------------------|---------------------|
| | | | | Frequency 826.5 MHz | Frequency 836.5 MHz | Frequency 846.5 MHz |
| 5/ 5 | QPSK | 1 | 0 | 22.36 | 23.10 | 23.27 |
| | | 1 | 12 | 22.89 | 22.91 | 23.18 |
| | | 1 | 24 | 23.18 | 22.61 | 22.37 |
| | | 12 | 0 | 21.70 | 22.16 | 22.21 |
| | | 12 | 6 | 22.01 | 21.92 | 22.17 |
| | | 12 | 13 | 22.24 | 21.81 | 21.96 |
| | | 25 | 0 | 21.93 | 22.01 | 22.11 |
| | 16QAM | 1 | 0 | 21.57 | 22.42 | 22.45 |
| | | 1 | 12 | 22.05 | 22.38 | 22.42 |
| | | 1 | 24 | 22.15 | 22.26 | 22.61 |
| | | 12 | 0 | 21.67 | 22.27 | 22.17 |
| | | 12 | 6 | 21.73 | 22.19 | 22.27 |
| | | 12 | 13 | 21.89 | 22.21 | 22.32 |
| | | 25 | 0 | 20.78 | 21.31 | 21.31 |



| Band/BW | Modulation | RB Size | RB Offset | Low CH 20450 | Mid CH 20525 | High CH 20600 |
|---------|------------|---------|-----------|----------------------|------------------------|----------------------|
| | | | | Frequency 829 MHz | Frequency 836.5 MHz | Frequency 844 MHz |
| 5/ 10 | QPSK | 1 | 0 | 22.46 | 23.18 | 23.30 |
| | | 1 | 24 | 22.92 | 22.96 | 23.30 |
| | | 1 | 49 | 23.28 | 22.71 | 22.46 |
| | | 25 | 0 | 21.74 | 22.23 | 22.28 |
| | | 25 | 12 | 22.02 | 22.04 | 22.26 |
| | | 25 | 25 | 22.30 | 21.84 | 21.98 |
| | | 50 | 0 | 22.04 | 22.06 | 22.14 |
| | 16QAM | 1 | 0 | 21.68 | 22.44 | 22.47 |
| | | 1 | 24 | 22.07 | 22.42 | 22.51 |
| | | 1 | 49 | 22.16 | 22.28 | 22.63 |
| | | 12 | 0 | 21.70 | 22.34 | 22.27 |
| | | 12 | 17 | 21.84 | 22.30 | 22.30 |
| | | 12 | 36 | 21.89 | 22.27 | 22.39 |
| | | 27 | 0 | 20.87 | 21.32 | 21.36 |



ERP POWER (dBm)

LTE BAND 5

CHANNEL BANDWIDTH: 1.4MHz QPSK

| Channel | Frequency (MHz) | Conducted Power (dBm) | G _T -L _c (dB) | ERP (dBm) | ERP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|-----------|----------|-----------|
| 20407 | 824.7 | 23.19 | 0.64 | 21.68 | 147.23 | 7 |
| 20525 | 836.5 | 23.12 | 0.64 | 21.61 | 144.88 | 7 |
| 20643 | 848.3 | 23.28 | 0.64 | 21.77 | 150.31 | 7 |

CHANNEL BANDWIDTH: 1.4MHz 16QAM

| Channel | Frequency (MHz) | Conducted Power (dBm) | G _T -L _c (dB) | ERP (dBm) | ERP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|-----------|----------|-----------|
| 20407 | 824.7 | 22.49 | 0.64 | 20.98 | 125.31 | 7 |
| 20525 | 836.5 | 22.87 | 0.64 | 21.36 | 136.77 | 7 |
| 20643 | 848.3 | 22.98 | 0.64 | 21.47 | 140.28 | 7 |

CHANNEL BANDWIDTH: 3MHz QPSK

| Channel | Frequency (MHz) | Conducted Power (dBm) | G _T -L _c (dB) | ERP (dBm) | ERP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|-----------|----------|-----------|
| 20415 | 825.5 | 23.18 | 0.64 | 21.67 | 146.89 | 7 |
| 20525 | 836.5 | 23.17 | 0.64 | 21.66 | 146.55 | 7 |
| 20635 | 847.5 | 23.29 | 0.64 | 21.78 | 150.66 | 7 |

CHANNEL BANDWIDTH: 3MHz 16QAM

| Channel | Frequency (MHz) | Conducted Power (dBm) | G _T -L _c (dB) | ERP (dBm) | ERP (mW) | Limit (W) |
|---------|-----------------|-----------------------|-------------------------------------|-----------|----------|-----------|
| 20415 | 825.5 | 22.11 | 0.64 | 20.6 | 114.82 | 7 |
| 20525 | 836.5 | 22.4 | 0.64 | 20.89 | 122.74 | 7 |
| 20635 | 847.5 | 22.61 | 0.64 | 21.1 | 128.82 | 7 |



CHANNEL BANDWIDTH: 5MHz QPSK

| Channel | Frequency (MHz) | Conducted Power (dBm) | G _{T-Lc} (dB) | ERP (dBm) | ERP (mW) | Limit (W) |
|---------|-----------------|-----------------------|------------------------|-----------|----------|-----------|
| 20425 | 826.5 | 23.18 | 0.64 | 21.67 | 146.89 | 7 |
| 20525 | 836.5 | 23.1 | 0.64 | 21.59 | 144.21 | 7 |
| 20625 | 846.5 | 23.27 | 0.64 | 21.76 | 149.97 | 7 |

CHANNEL BANDWIDTH: 5MHz 16QAM

| Channel | Frequency (MHz) | Conducted Power (dBm) | G _{T-Lc} (dB) | ERP (dBm) | ERP (mW) | Limit (W) |
|---------|-----------------|-----------------------|------------------------|-----------|----------|-----------|
| 20425 | 826.5 | 22.15 | 0.64 | 20.64 | 115.88 | 7 |
| 20525 | 836.5 | 22.42 | 0.64 | 20.91 | 123.31 | 7 |
| 20625 | 846.5 | 22.61 | 0.64 | 21.1 | 128.82 | 7 |

CHANNEL BANDWIDTH: 10MHz QPSK

| Channel | Frequency (MHz) | Conducted Power (dBm) | G _{T-Lc} (dB) | ERP (dBm) | ERP (mW) | Limit (W) |
|---------|-----------------|-----------------------|------------------------|-----------|----------|-----------|
| 20450 | 829.0 | 23.28 | 0.64 | 21.77 | 150.31 | 7 |
| 20525 | 836.5 | 23.18 | 0.64 | 21.67 | 146.89 | 7 |
| 20600 | 844.0 | 23.3 | 0.64 | 21.79 | 151.01 | 7 |

CHANNEL BANDWIDTH: 10MHz 16QAM

| Channel | Frequency (MHz) | Conducted Power (dBm) | G _{T-Lc} (dB) | ERP (dBm) | ERP (mW) | Limit (W) |
|---------|-----------------|-----------------------|------------------------|-----------|----------|-----------|
| 20450 | 829.0 | 22.16 | 0.64 | 20.65 | 116.14 | 7 |
| 20525 | 836.5 | 22.44 | 0.64 | 20.93 | 123.88 | 7 |
| 20600 | 844.0 | 22.63 | 0.64 | 21.12 | 129.42 | 7 |

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

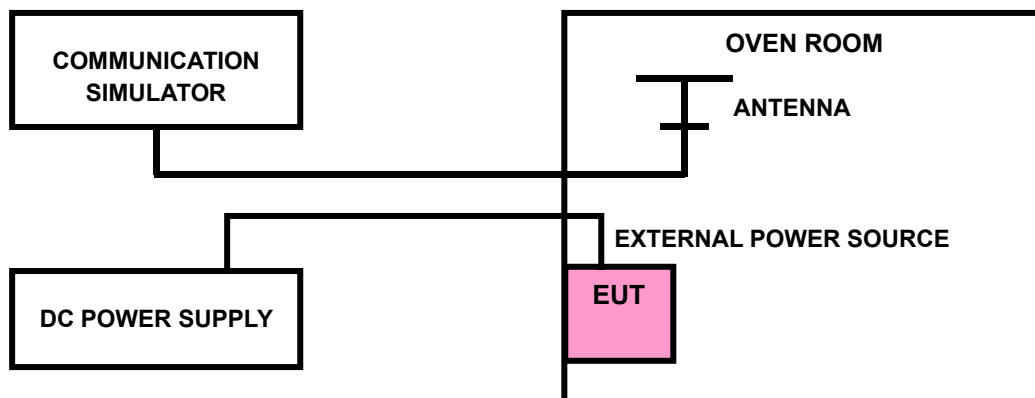
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

3.2.2 TEST PROCEDURE

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

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





Test Report No.: W7L-P23070009-2RF01

3.2.4 TEST RESULTS

Please refer to the data of report W7L-P23070009RF01 (FCC ID: 2AJYU-8XS0001, model: SIM7672G) .

Note: VL = Low voltage(3.2V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.2V);
NT = Normal temperature (25°C)

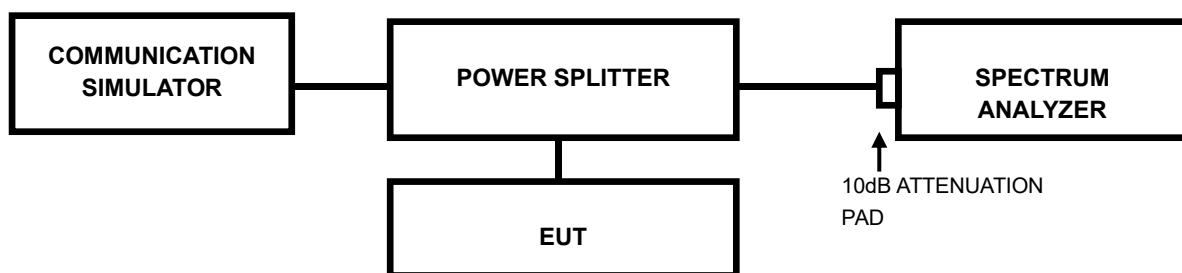


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



Test Report No.: W7L-P23070009-2RF01

3.3.4 TEST RESULTS

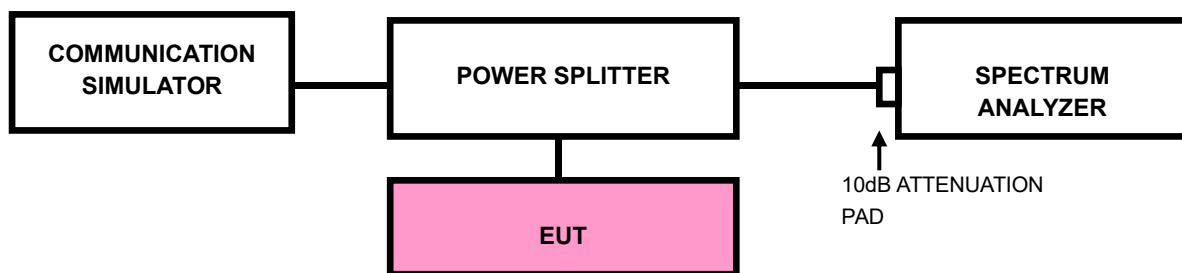
Please refer to the data of report W7L-P23070009RF01 (FCC ID: 2AJYU-8XS0001, model: SIM7672G) .

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP





3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) .Set the resolution bandwidth (RBW) \cong 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to \cong 3 x RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to \cong 1001.
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.



Test Report No.: W7L-P23070009-2RF01

3.4.4 TEST RESULTS

Please refer to the data of report W7L-P23070009RF01 (FCC ID: 2AJYU-8XS0001, model: SIM7672G) .



3.5 CONDUCTED SPURIOUS EMISSIONS

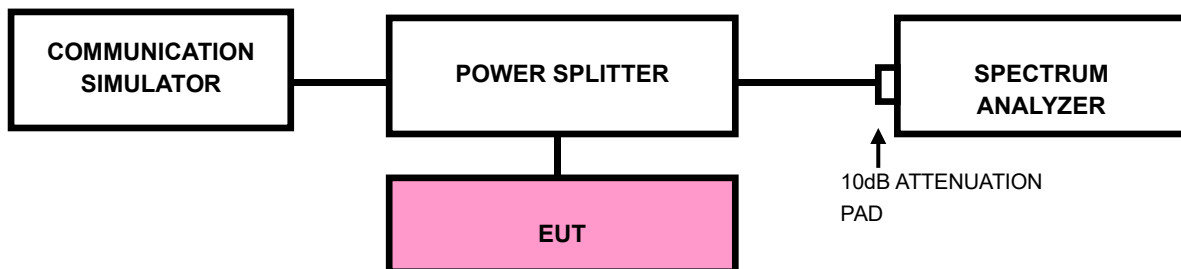
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 .

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9kHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP





Test Report No.: W7L-P23070009-2RF01

3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please refer to the data of report W7L-P23070009RF01 (FCC ID: 2AJYU-8XS0001, model: SIM7672G) .



3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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 .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. 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
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

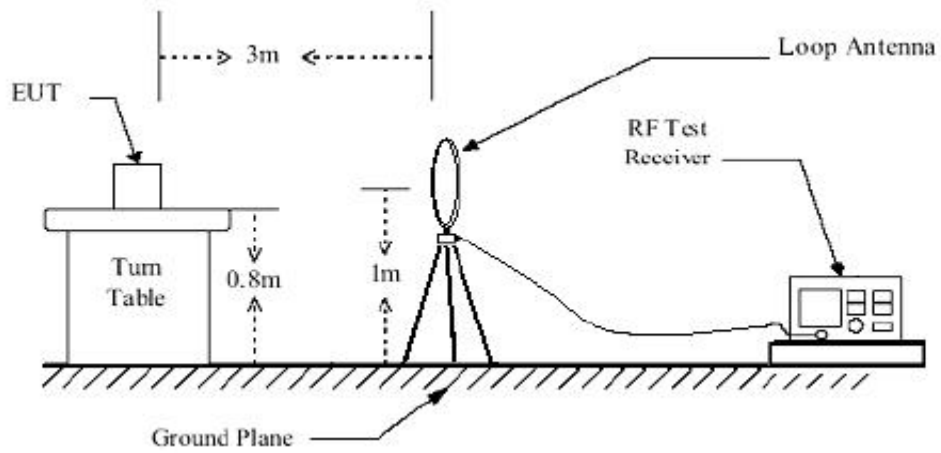
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

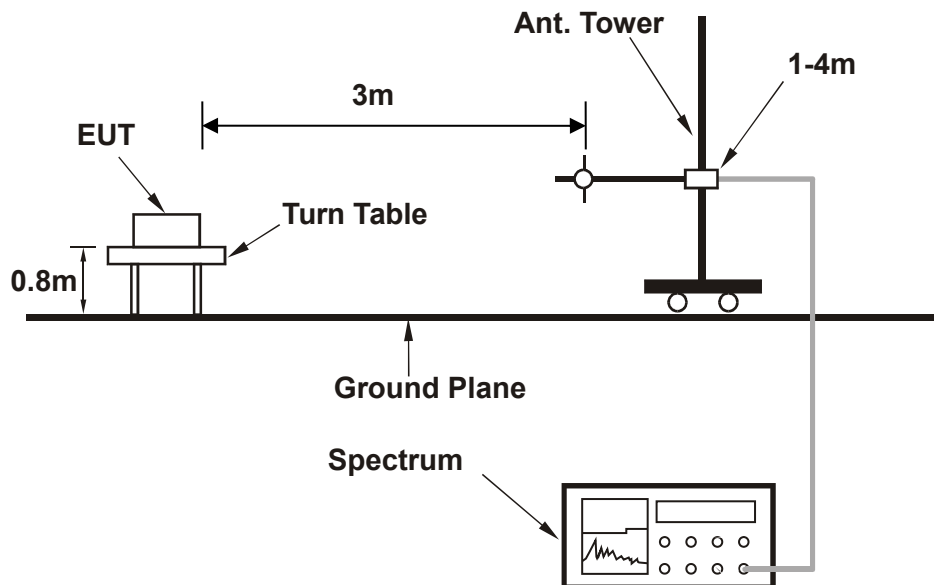


3.6.4 TEST SETUP

< Frequency Range below 30MHz >

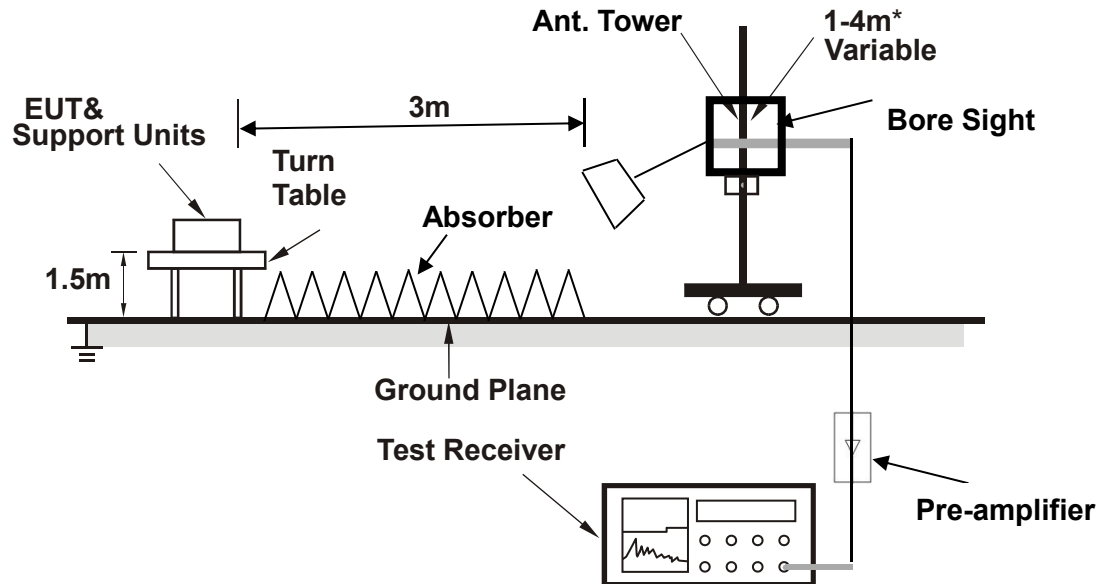


< Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

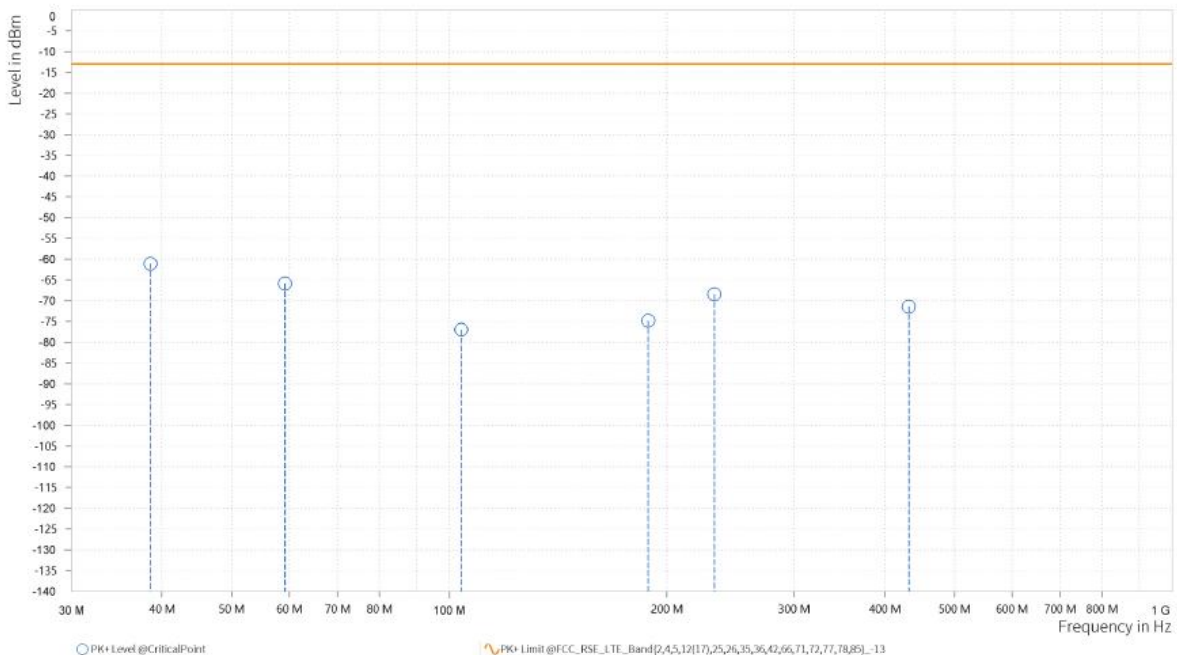
30 MHz – 1GHz data:

LTE BAND 5:

CHANNEL BANDWIDTH: 10MHz/ QPSK

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Below 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1 | 38.550 | -61.07 | -13.00 | 48.07 | 5.86 | H | 200.1 | 1 |
| 1 | 59.200 | -65.82 | -13.00 | 52.82 | 2.58 | H | 90.1 | 1 |
| 1 | 103.850 | -76.98 | -13.00 | 63.98 | -4.84 | H | 359.1 | 1 |
| 1 | 188.400 | -74.78 | -13.00 | 61.78 | 1.17 | H | 46.2 | 2 |
| 1 | 232.550 | -68.43 | -13.00 | 55.43 | 8.10 | H | 231.5 | 2 |
| 1 | 431.800 | -71.40 | -13.00 | 58.40 | 7.19 | H | 5.6 | 1 |



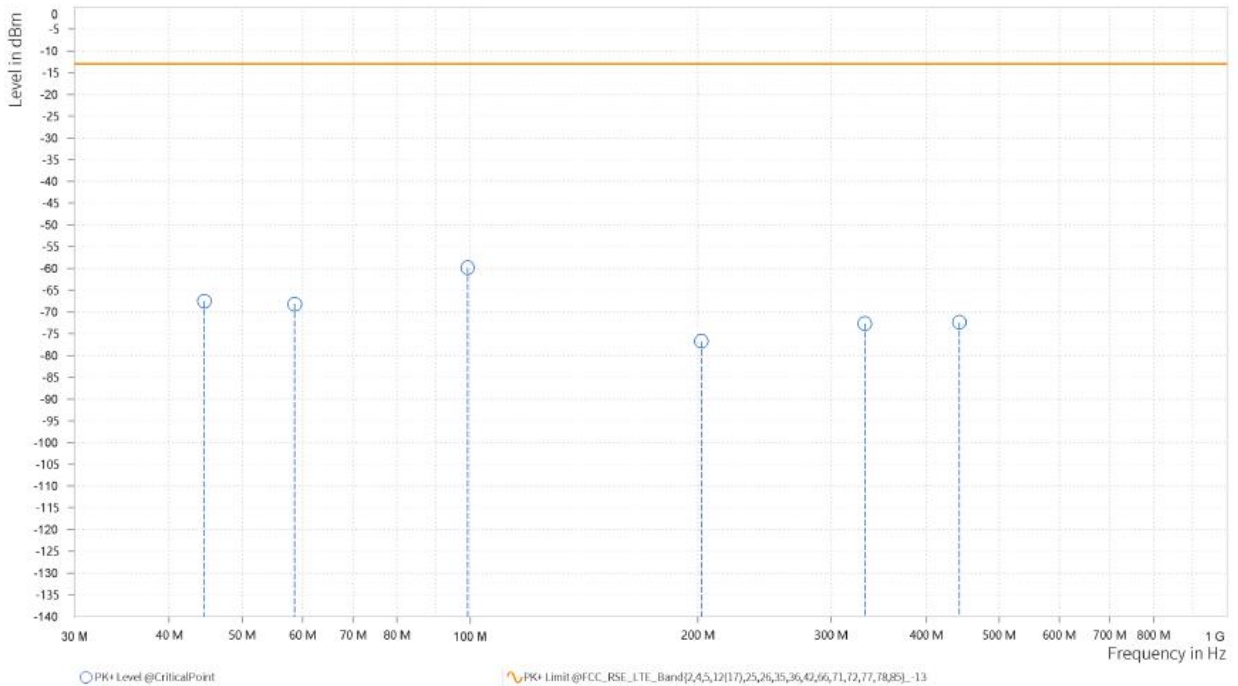


**BUREAU
VERITAS**

Test Report No.: W7L-P23070009-2RF01

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Below 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 1 | 44.550 | -67.52 | -13.00 | 54.52 | -0.12 | V | 336.3 | 1 |
| 1 | 58.600 | -68.17 | -13.00 | 55.17 | 2.96 | V | 67.4 | 1 |
| 1 | 99.200 | -59.83 | -13.00 | 46.83 | 11.69 | V | 5 | 1 |
| 1 | 202.150 | -76.75 | -13.00 | 63.75 | 0.11 | V | 359 | 2 |
| 1 | 332.300 | -72.66 | -13.00 | 59.66 | 5.61 | V | 200.2 | 1 |
| 1 | 442.950 | -72.35 | -13.00 | 59.35 | 5.61 | V | 231.5 | 2 |





ABOVE 1GHz DATA

Note: For higher frequency, the emission is too low to be detected.

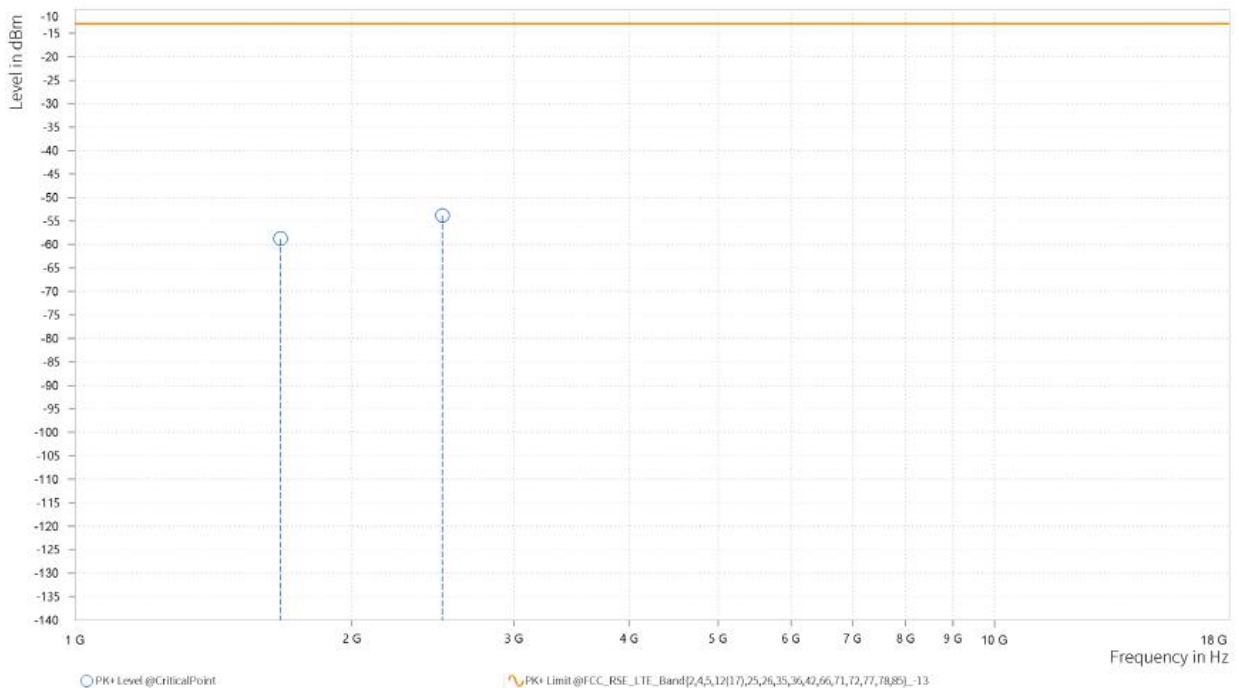
LTE Band 5

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH20525

| | | | |
|--|------------------|-----------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

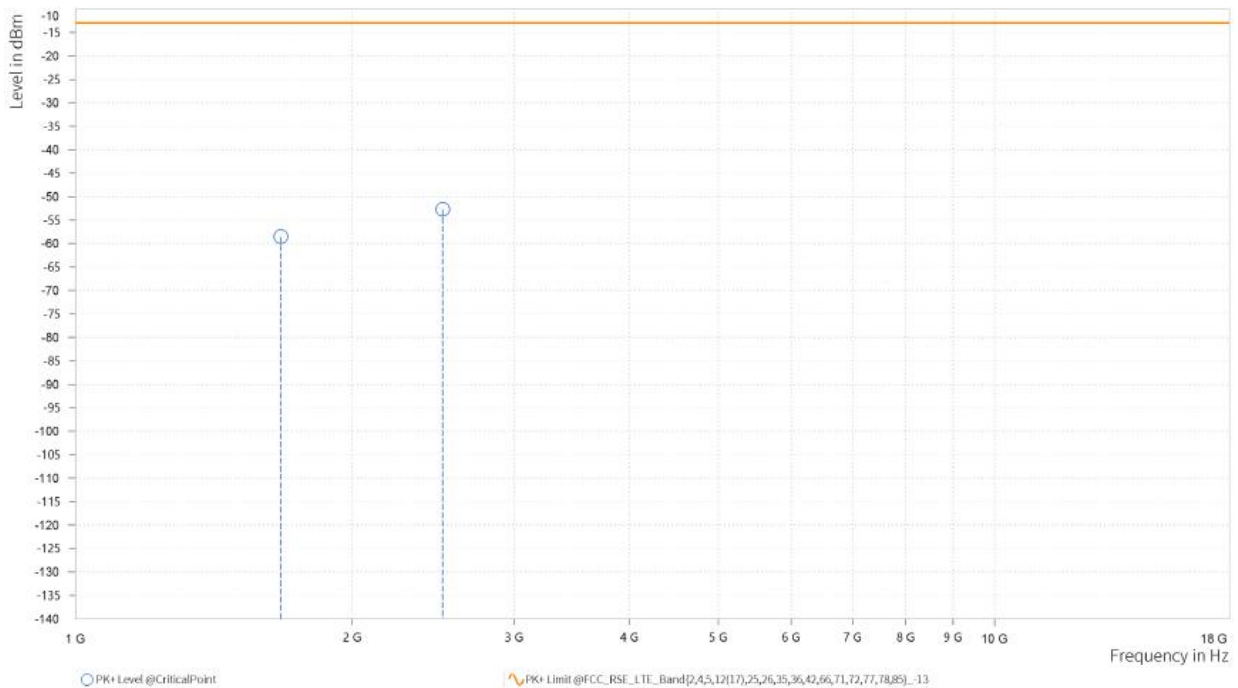
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,671.740 | -58.75 | -13.00 | 45.75 | 16.05 | H | 67.4 | 1 |
| 3 | 2,507.610 | -53.82 | -13.00 | 40.82 | 21.17 | H | 1 | 1 |





| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,671.740 | -58.54 | -13.00 | 45.54 | 14.95 | V | 0.9 | 2 |
| 3 | 2,507.610 | -52.73 | -13.00 | 39.73 | 21.73 | V | 0.9 | 2 |



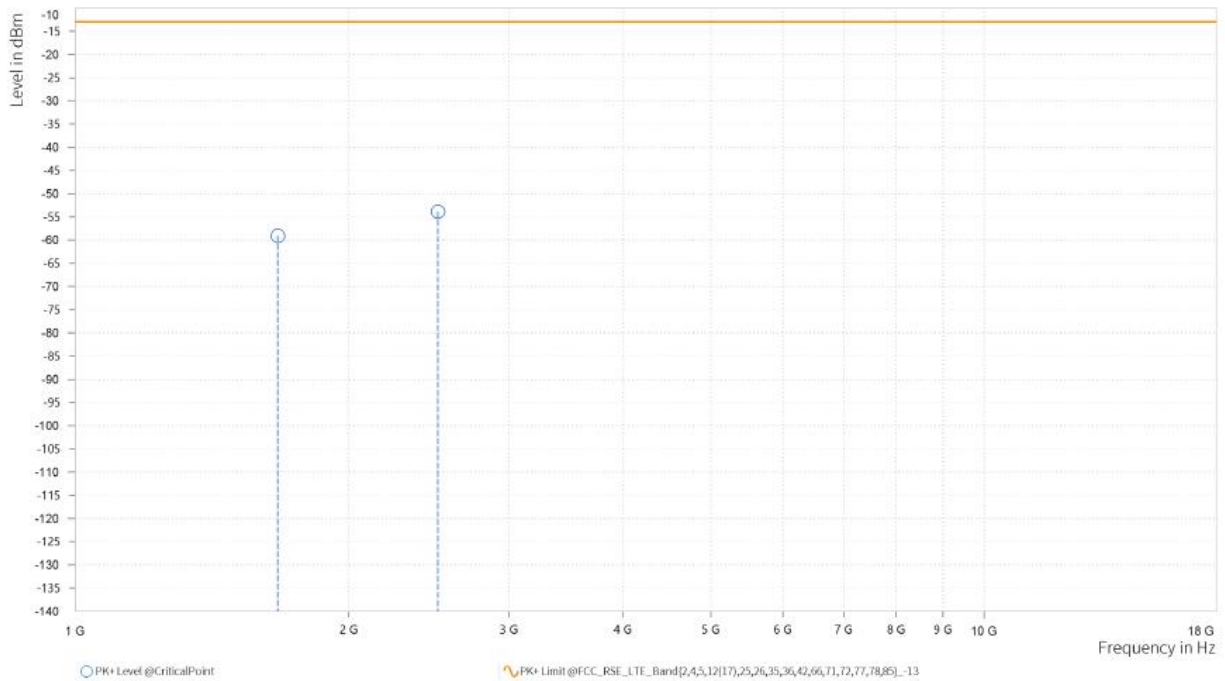


CHANNEL BANDWIDTH: 3MHz / QPSK

CH 20525

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

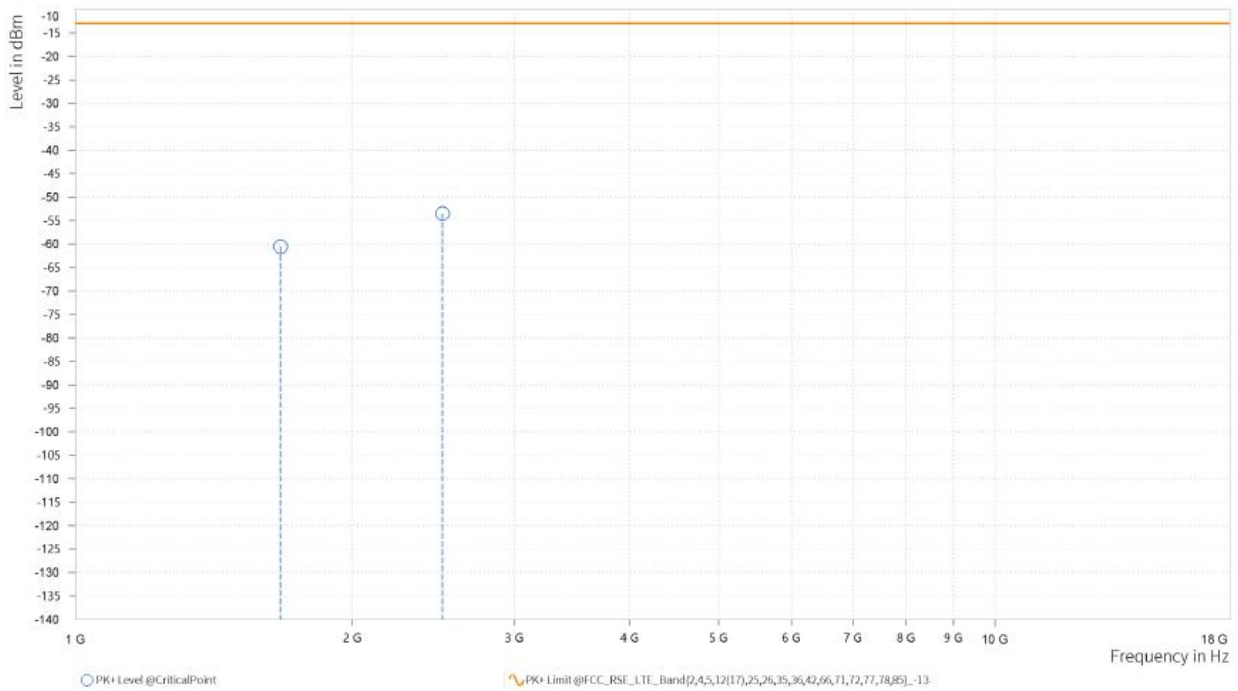
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,670.300 | -59.06 | -13.00 | 46.06 | 16.04 | H | 359.1 | 1 |
| 3 | 2,505.450 | -53.90 | -13.00 | 40.90 | 21.15 | H | 0.9 | 2 |





| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,670.300 | -60.54 | -13.00 | 47.54 | 14.93 | V | 1 | 1 |
| 3 | 2,505.450 | -53.51 | -13.00 | 40.51 | 21.67 | V | 257.8 | 2 |

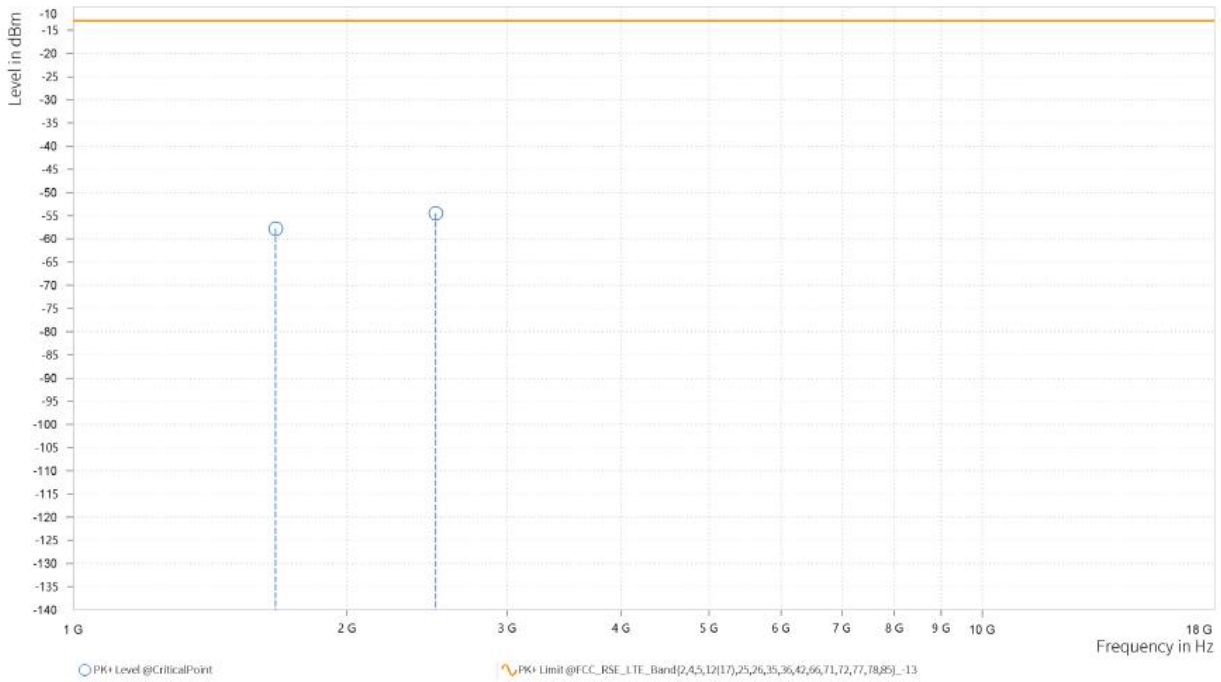




CHANNEL BANDWIDTH: 5MHz / QPSK

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

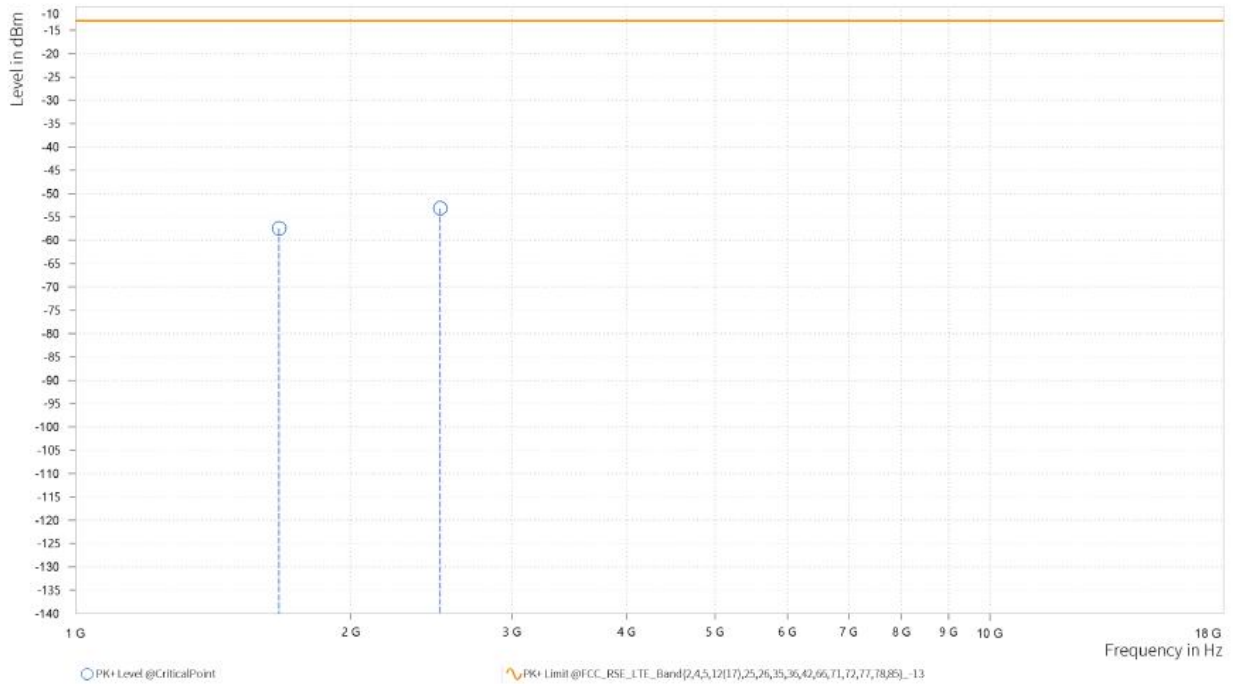
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,668.500 | -57.78 | -13.00 | 44.78 | 16.01 | H | 50.7 | 1 |
| 3 | 2,502.750 | -54.46 | -13.00 | 41.46 | 21.14 | H | 70.2 | 2 |





| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,668.500 | -57.44 | -13.00 | 44.44 | 14.90 | V | 0.9 | 2 |
| 3 | 2,502.750 | -53.17 | -13.00 | 40.17 | 21.58 | V | 359 | 2 |



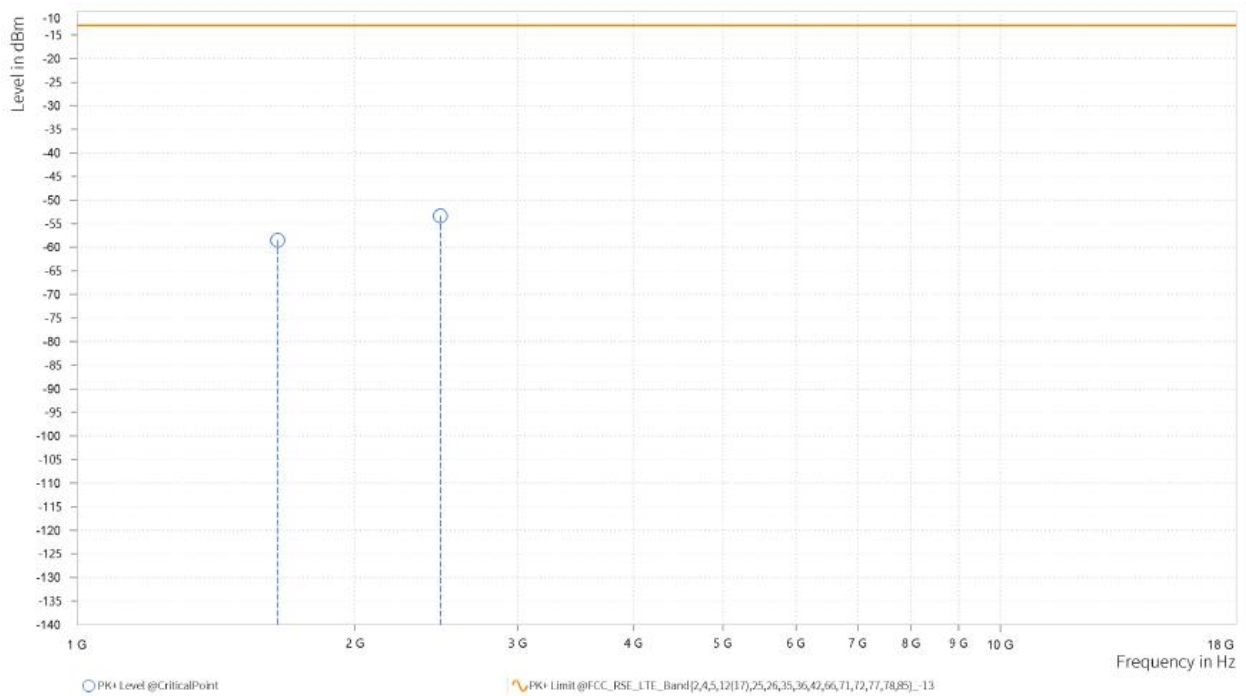


CHANNEL BANDWIDTH: 10MHz / QPSK

CH 20415

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20415 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

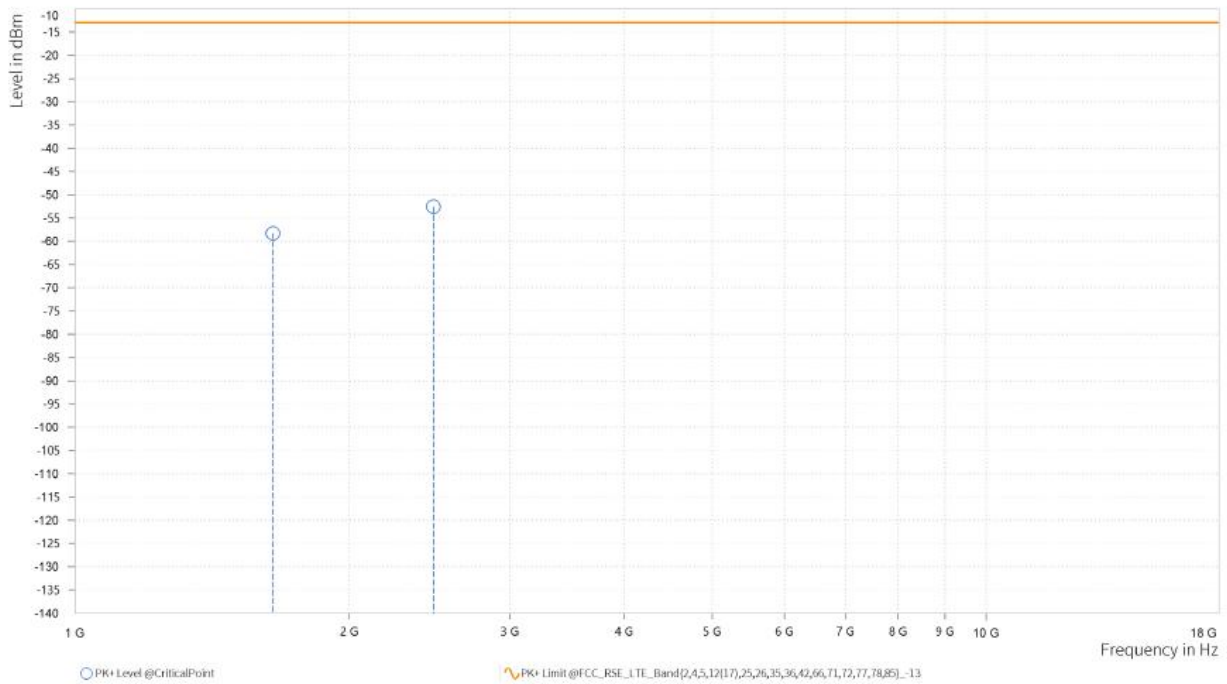
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,649.000 | -58.48 | -13.00 | 45.48 | 15.41 | H | 1 | 1 |
| 3 | 2,473.500 | -53.32 | -13.00 | 40.32 | 20.82 | H | 1 | 2 |





| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20415 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,649.000 | -58.28 | -13.00 | 45.28 | 14.96 | V | 1 | 1 |
| 3 | 2,473.500 | -52.54 | -13.00 | 39.54 | 21.07 | V | 257.8 | 2 |





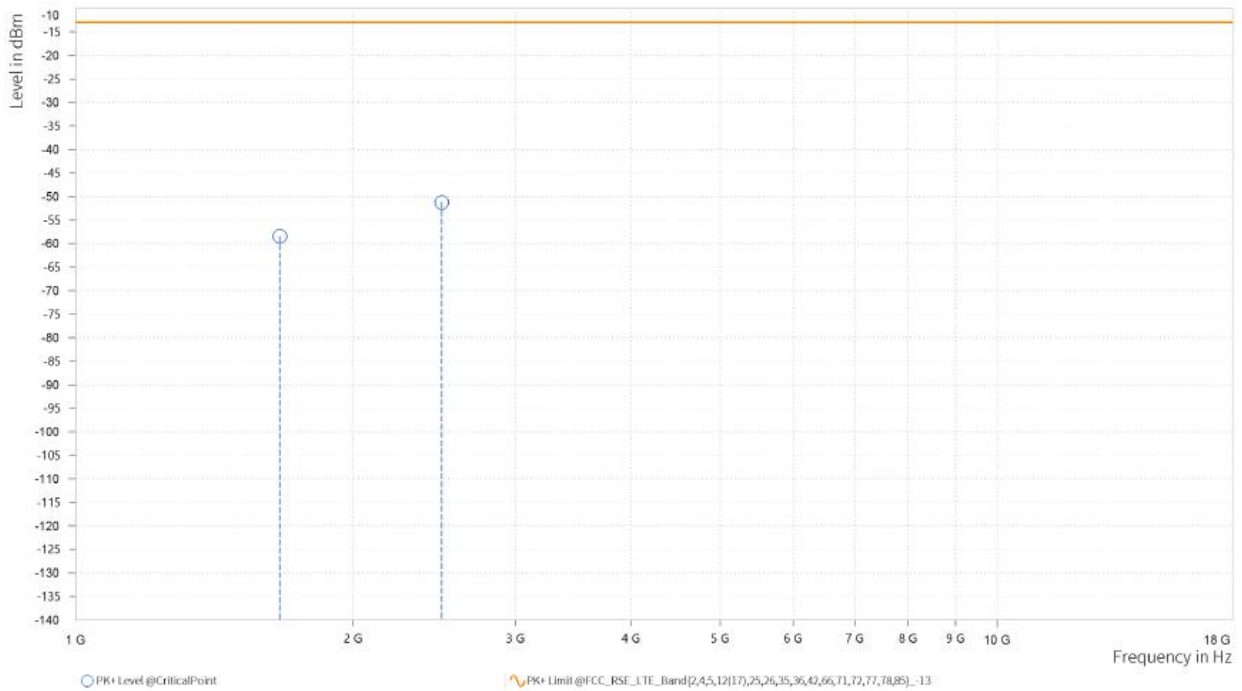
**BUREAU
VERITAS**

Test Report No.: W7L-P23070009-2RF01

CH20525

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

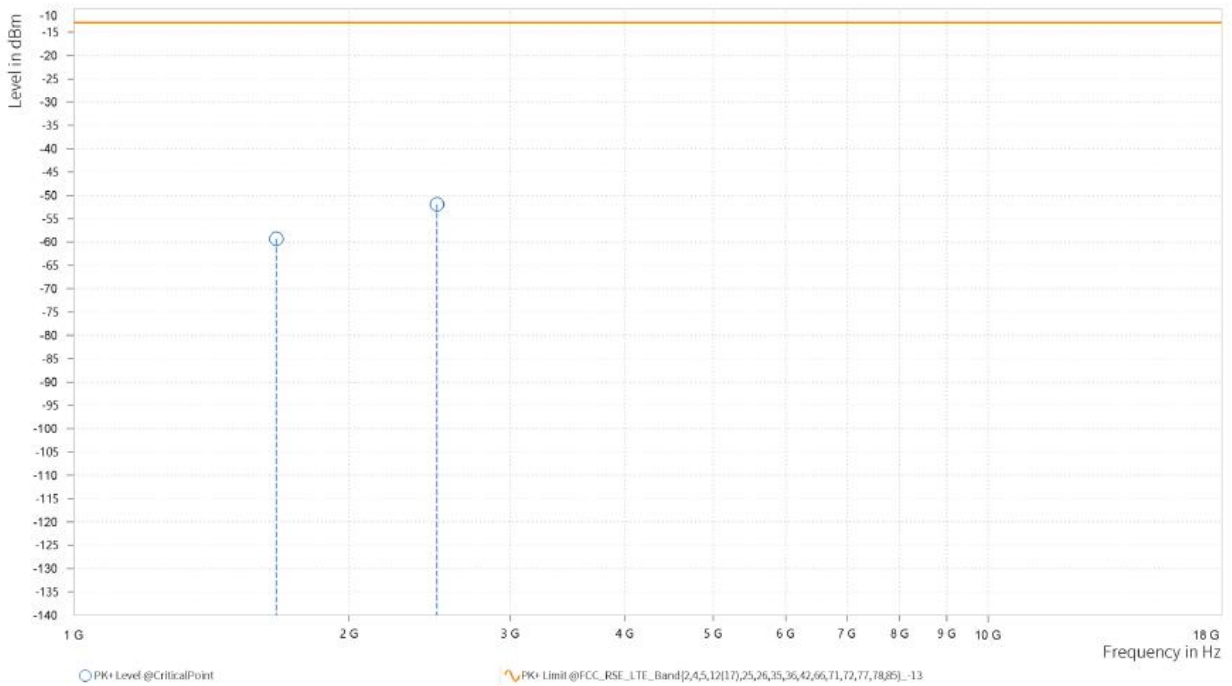
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,664.000 | -58.43 | -13.00 | 45.43 | 15.94 | H | 1 | 1 |
| 3 | 2,496.000 | -51.23 | -13.00 | 38.23 | 21.20 | H | 1 | 1 |





| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20525 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,664.000 | -59.30 | -13.00 | 46.30 | 14.82 | V | 277.8 | 1 |
| 3 | 2,496.000 | -51.92 | -13.00 | 38.92 | 21.48 | V | 359.1 | 1 |

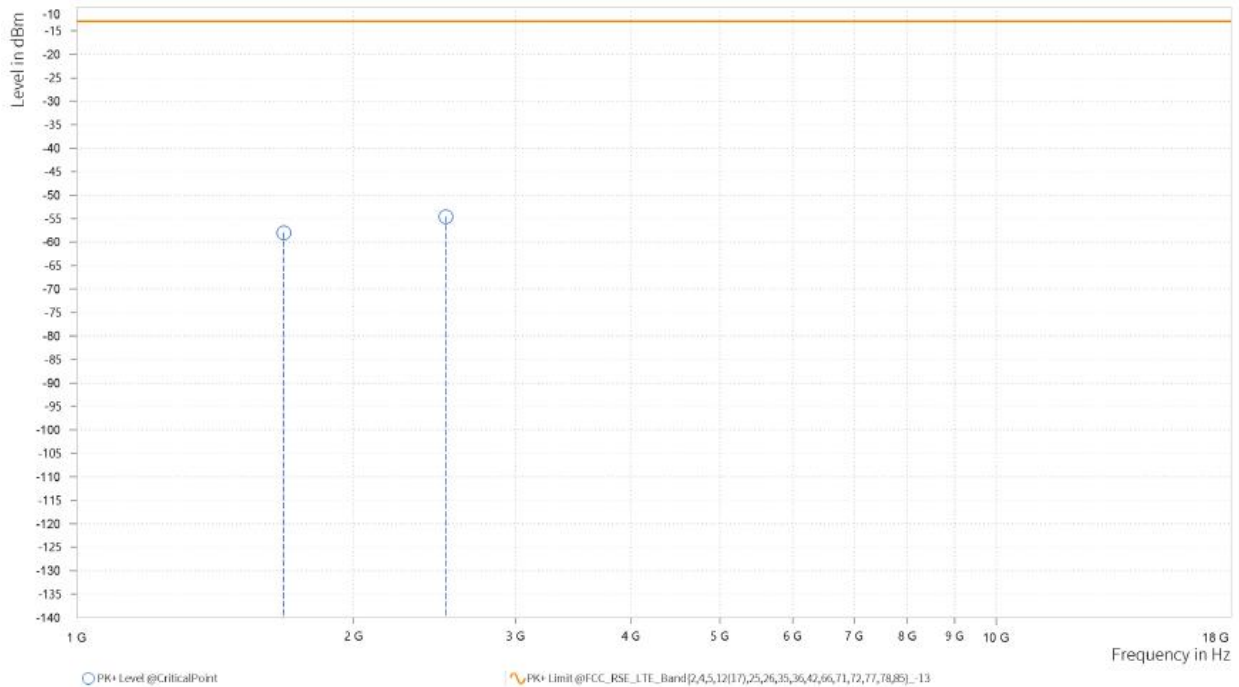




CH 20635

| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20635 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | |

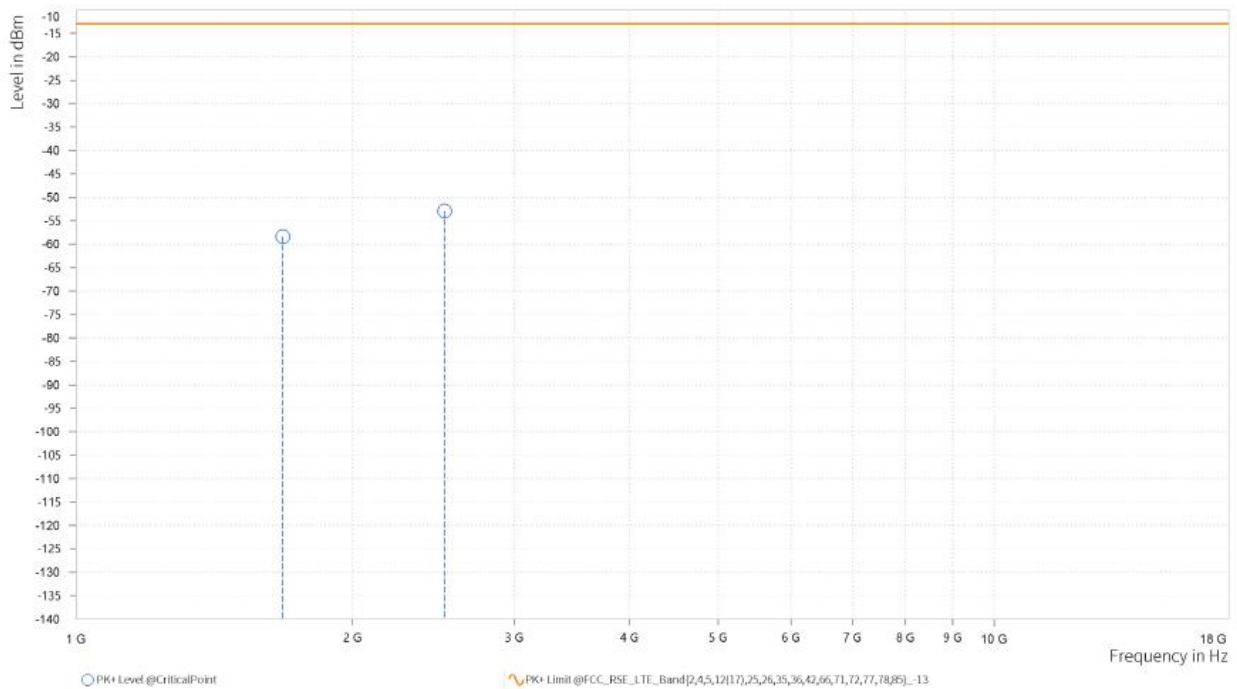
| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,679.000 | -57.98 | -13.00 | 44.98 | 16.19 | H | 280.2 | 1 |
| 3 | 2,518.500 | -54.57 | -13.00 | 41.57 | 20.93 | H | 1 | 1 |





| | | | |
|--|------------------|------------------------|---------------|
| MODE | TX channel 20635 | FREQUENCY RANGE | Above 1000MHz |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 70%RH | INPUT POWER | AC 120V/60HZ |
| TESTED BY | Chao Wu | | |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | |

| Rg | Frequency [MHz] | PK+ Level [dBm] | PK+ Limit [dBm] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|---------------|--------------------|
| 2 | 1,679.000 | -58.35 | -13.00 | 45.35 | 15.11 | V | 8.8 | 2 |
| 3 | 2,518.500 | -52.92 | -13.00 | 39.92 | 21.78 | V | 301.7 | 1 |



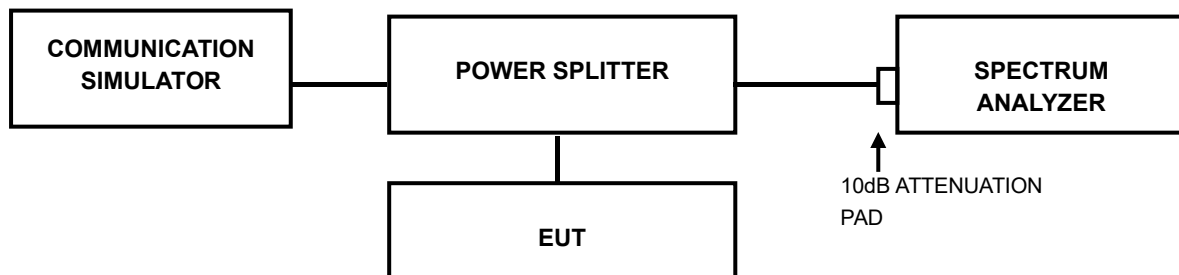


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

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

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

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



Test Report No.: W7L-P23070009-2RF01

3.7.4 TEST RESULTS

Please refer to the data of report W7L-P23070009RF01 (FCC ID: 2AJYU-8XS0001, model: SIM7672G) .



BUREAU
VERITAS

Test Report No.: W7L-P23070009-2RF01

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



**BUREAU
VERITAS**

Test Report No.: W7L-P23070009-2RF01

5 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



**BUREAU
VERITAS**

Test Report No.: W7L-P23070009-2RF01

6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---