

# **RF Exposure Report**

Report No.: SA190618D07C

FCC ID: TK4WLE900VX (For WiFi)

N7NEM7455 (For LTE)

Test Model: WLE900VX (For WiFi)

EM7455 (For LTE)

Received Date: Mar. 18, 2020

**Test Date:** Mar. 26, 2020

**Issued Date:** Mar. 27, 2020

Applicant: Compex Systems Pte Ltd

Address: No 9 Harrison Road, Harrison Industrial Building, #05-01, 369651, Singapore

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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FCC Registration /

Designation Number: 198487 / TW2021





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## **Release Control Record**

| Issue No.    | Description       | Date Issued   |
|--------------|-------------------|---------------|
| SA190618D07C | Original release. | Mar. 27, 2020 |

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Report No.: SA190618D07C Reference No.: 200318D04



### 1 Certificate of Conformity

**Product:** 802.11ac Dual Band Module (For WiFi)

Wireless Modules (For LTE)

Brand: COMPEX (For WiFi)

Sierra Wireless Inc. (For LTE)

Test Model: WLE900VX (For WiFi)

EM7455 (For LTE)

Sample Status: Engineering sample

Applicant: Compex Systems Pte Ltd

Test Date: Mar. 26, 2020

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.3 -2002

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by: Mar. 27, 2020 Mar. 27, 2020

Annie Chang / Senior Specialist

**Approved by :** , **Date:** Mar. 27, 2020

Rex Lai / Associate Technical Manager



## 2 General Information

# 2.1 General Description of EUT

# WiFi Module (FCC ID: TK4WLE900VX)

| Product               | 802.11ac Dual Band Module                        |  |  |
|-----------------------|--------------------------------------------------|--|--|
| Brand                 | COMPEX                                           |  |  |
| Test Model            | WLE900VX                                         |  |  |
| Status of EUT         | Engineering sample                               |  |  |
|                       | CCK, DQPSK, DBPSK for DSSS                       |  |  |
| Modulation Type       | 64QAM, 16QAM, QPSK, BPSK for OFDM                |  |  |
|                       | 256QAM for OFDM in 11ac mode only.               |  |  |
| Modulation Technology | DSSS,OFDM                                        |  |  |
|                       | 802.11b: up to 11Mbps                            |  |  |
|                       | 802.11g: up to 54Mbps                            |  |  |
| Transfer Rate         | 802.11a: up to 54Mbps                            |  |  |
|                       | 802.11n: up to 450Mbps                           |  |  |
|                       | 802.11ac: up to 1299.9Mbps                       |  |  |
| Operating Frequency   | 2412 ~ 2462MHz, 5180 ~ 5240MHz, 5745 ~ 5825MHz   |  |  |
|                       | 2412~2462MHz                                     |  |  |
|                       | 11 for 802.11b, 802.11g, 802.11n (20MHz)         |  |  |
|                       | 7 for 802.11n (40MHz)                            |  |  |
|                       | 5180~5240MHz                                     |  |  |
|                       | 4 for 802.11a, 802.11n (20MHz), 802.11ac (20MHz) |  |  |
| Number of Channel     | 2 for 802.11n (40MHz), 802.11ac (40MHz)          |  |  |
|                       | 1 for 802.11ac (80MHz)                           |  |  |
|                       | 5745~5825MHz                                     |  |  |
|                       | 5 for 802.11a, 802.11n (20MHz) 802.11ac (20MHz)  |  |  |
|                       | 2 for 802.11n (40MHz) 802.11ac (40MHz)           |  |  |
|                       | 1 for 802.11ac (80MHz)                           |  |  |
|                       | 2412~2462MHz: 209.152mW                          |  |  |
| Output Power          | 5180~5240MHz: 139.657mW                          |  |  |
|                       | <b>5745~5825MHz</b> : 254.153mW                  |  |  |
| Antenna Type          | Refer to note as below                           |  |  |
| Antenna Connector     | Reverse SMA                                      |  |  |
| Accessory Device      | N/A                                              |  |  |
| Data Cable Supplied   | N/A                                              |  |  |



# LTE Module (FCC ID: N7NEM7455)

| Product                              | Wireless Modules                         |                      |  |  |  |
|--------------------------------------|------------------------------------------|----------------------|--|--|--|
| Brand                                | Sierra Wireless Inc.                     |                      |  |  |  |
| Test Model                           | EM7455                                   |                      |  |  |  |
| Status of EUT                        | MASS-PRODUCTION                          |                      |  |  |  |
| Power Supply Rating                  | 3.3 Vdc (Host equipment)                 |                      |  |  |  |
| Madulation Type                      | WCDMA                                    | QPSK                 |  |  |  |
| Modulation Type                      | LTE                                      | QPSK, 16QAM          |  |  |  |
| Frequency Range                      |                                          | 826.4 ~ 846.6 MHz,   |  |  |  |
|                                      | WCDMA                                    | 1852.4 ~ 1907.6 MHz, |  |  |  |
| <wcdma></wcdma>                      |                                          | 1712.4 ~ 1752.6 MHz  |  |  |  |
|                                      | LTE Band 4 (Channel Bandwidth: 1.4 MHz)  | 1710.7 ~ 1754.3 MHz  |  |  |  |
|                                      | LTE Band 4 (Channel Bandwidth: 3 MHz)    | 1711.5 ~ 1753.5 MHz  |  |  |  |
| Frequency Range                      | LTE Band 4 (Channel Bandwidth: 5 MHz)    | 1712.5 ~ 1752.5 MHz  |  |  |  |
| <lte 4="" band=""></lte>             | LTE Band 4 (Channel Bandwidth: 10 MHz)   | 1715.0 ~ 1750.0 MHz  |  |  |  |
|                                      | LTE Band 4 (Channel Bandwidth: 15 MHz)   | 1717.5 ~ 1747.5 MHz  |  |  |  |
|                                      | LTE Band 4 (Channel Bandwidth: 20 MHz)   | 1720.0 ~ 1745.0 MHz  |  |  |  |
|                                      | LTE Band 5 (Channel Bandwidth: 1.4 MHz)  | 824.7 ~ 848.3 MHz    |  |  |  |
| Frequency Range                      | LTE Band 5 (Channel Bandwidth: 3 MHz)    | 825.5 ~ 847.5 MHz    |  |  |  |
| <lte 5="" band=""></lte>             | LTE Band 5 (Channel Bandwidth: 5 MHz)    | 826.5 ~ 846.5 MHz    |  |  |  |
|                                      | LTE Band 5 (Channel Bandwidth: 10 MHz)   | 829 ~ 844 MHz        |  |  |  |
|                                      | LTE Band 7 (Channel Bandwidth: 5 MHz)    | 2502.5 ~ 2567.5 MHz  |  |  |  |
| Frequency Range                      | LTE Band 7 (Channel Bandwidth: 10 MHz)   | 2505 ~ 2565 MHz      |  |  |  |
| <lte 7="" band=""></lte>             | LTE Band 7 (Channel Bandwidth: 15 MHz)   | 2507.5 ~ 2562.5 MHz  |  |  |  |
|                                      | LTE Band 7 (Channel Bandwidth: 20 MHz)   | 2510 ~ 2560 MHz      |  |  |  |
|                                      | LTE Band 12 (Channel Bandwidth: 1.4 MHz) | 699.7 ~ 715.3 MHz    |  |  |  |
| Frequency Range                      | LTE Band 12 (Channel Bandwidth: 3 MHz)   | 700.5 ~ 714.5 MHz    |  |  |  |
| <lte 12="" band=""></lte>            | LTE Band 12 (Channel Bandwidth: 5 MHz)   | 701.5 ~ 713.5 MHz    |  |  |  |
|                                      | LTE Band 12 (Channel Bandwidth: 10 MHz)  | 704.0 ~ 711.0 MHz    |  |  |  |
| Frequency Range                      | LTE Band 13 (Channel Bandwidth: 5 MHz)   | 779.5 ~ 784.5 MHz    |  |  |  |
| <lte 13="" band=""></lte>            | LTE Band 13 (Channel Bandwidth: 10 MHz)  | 782.0 MHz            |  |  |  |
| 2.2.24.14                            | LTE Band 25 (Channel Bandwidth: 1.4 MHz) | 1850.7 ~ 1914.3 MHz  |  |  |  |
|                                      | LTE Band 25 (Channel Bandwidth: 3 MHz)   | 1851.5 ~ 1913.5 MHz  |  |  |  |
| Frequency Range                      | LTE Band 25 (Channel Bandwidth: 5 MHz)   | 1852.5 ~ 1912.5 MHz  |  |  |  |
| <lte 25="" band=""></lte>            | LTE Band 25 (Channel Bandwidth: 10 MHz)  | 1855.0 ~ 1910.0 MHz  |  |  |  |
| TETE Build 20                        | LTE Band 25 (Channel Bandwidth: 15 MHz)  | 1857.5 ~ 1907.5 MHz  |  |  |  |
|                                      | LTE Band 25 (Channel Bandwidth: 20 MHz)  | 1860.0 ~ 1905.0 MHz  |  |  |  |
|                                      | LTE Band 26 (Channel Bandwidth: 1.4 MHz) | 824.7 ~ 848.3 MHz    |  |  |  |
|                                      | LTE Band 26 (Channel Bandwidth: 3 MHz)   | 825.5 ~ 847.5 MHz    |  |  |  |
| Frequency Range                      | LTE Band 26 (Channel Bandwidth: 5 MHz)   | 826.5 ~ 846.5 MHz    |  |  |  |
| <lte 22="" 26_part="" band=""></lte> | LTE Band 26 (Channel Bandwidth: 10 MHz)  | 829 ~ 844 MHz        |  |  |  |
|                                      | LTE Band 26 (Channel Bandwidth: 15 MHz)  | 831.5 ~ 841.5 MHz    |  |  |  |



|                                       | LTE Band 26 (Channel Bandwidth: 1.4 MHz) | 814.7 ~ 823.3 MHz                 |  |  |
|---------------------------------------|------------------------------------------|-----------------------------------|--|--|
| Frequency Range                       | LTE Band 26 (Channel Bandwidth: 3 MHz)   | 815.5 ~ 822.5 MHz                 |  |  |
| <lte 26_part="" 90s="" band=""></lte> | LTE Band 26 (Channel Bandwidth: 5 MHz)   | 816.5 ~ 821.5 MHz                 |  |  |
|                                       | LTE Band 26 (Channel Bandwidth: 10 MHz)  | 819 MHz                           |  |  |
| Frequency Range                       | LTE Band 30 (Channel Bandwidth: 5 MHz)   | 2307.5 ~ 2312.5 MHz               |  |  |
| <lte 30="" band=""></lte>             | LTE Band 30 (Channel Bandwidth: 10 MHz)  | 2310 MHz                          |  |  |
|                                       | LTE Band 41 (Channel Bandwidth: 5 MHz)   | 2498.5 ~ 2687.5 MHz               |  |  |
| Frequency Range                       | LTE Band 41 (Channel Bandwidth: 10 MHz)  | 2501.0 ~ 2685.0 MHz               |  |  |
| <lte 41="" band=""></lte>             | LTE Band 41 (Channel Bandwidth: 15 MHz)  | 2503.5 ~ 2682.5 MHz               |  |  |
|                                       | LTE Band 41 (Channel Bandwidth: 20 MHz)  | 2506.0 ~ 2680.0 MHz               |  |  |
|                                       | LTE Band 5 & 26                          | Dipole Antenna with 3.2 dBi gain  |  |  |
|                                       | LTE Band 25                              | Dipole Antenna with 1.56 dBi gain |  |  |
|                                       | LTE Band 4                               | Dipole Antenna with 1.62 dBi gain |  |  |
|                                       | LTE Band 12                              | Dipole Antenna with 1.49 dBi gain |  |  |
| A                                     | LTE Band 13                              | Dipole Antenna with 1.66 dBi gain |  |  |
| Antenna Type                          | LTE Band 7 & 41                          | Dipole Antenna with 0.86 dBi gain |  |  |
|                                       | LTE Band 30                              | Dipole Antenna with 2.27 dBi gain |  |  |
|                                       | WCDMA_826.4 ~ 846.6 MHz                  | Dipole Antenna with 3.2 dBi gain  |  |  |
|                                       | WCDMA_1852.4 ~ 1907.6 MHz                | Dipole Antenna with 1.56 dBi gain |  |  |
|                                       | WCDMA_1712.4 ~ 1752.6 MHz                | Dipole Antenna with 1.62 dBi gain |  |  |
| Accessory Device                      | N/A                                      |                                   |  |  |
| Data Cable Supplied                   | N/A                                      |                                   |  |  |
| · · · · · · · · · · · · · · · · · · · |                                          |                                   |  |  |

## Note:

1. The EUT provides 3 completed transmitter and 3 receiver.

| Modulation Mode  | TX Function |  |
|------------------|-------------|--|
| 802.11a          | 1TX         |  |
| 802.11b          | 1TX         |  |
| 802.11g          | 1TX         |  |
| 802.11n (20MHz)  | 3TX         |  |
| 802.11n (40MHz)  | 3TX         |  |
| 802.11ac (20MHz) | 3TX         |  |
| 802.11ac (40MHz) | 3TX         |  |
| 802.11ac (80MHz) | 3TX         |  |

- 2. This report is prepared for FCC class II permissive change.
- 3. 2.4GHz and 5GHz modes cannot transmit simultaneously.
- 4. WiFi & LTE technologies can transmit at same time.
- 5. The emission of the simultaneous operation has been evaluated and no non-compliance was found.



### 6. The antenna information is listed as below:

| Description             | Platform: Network Security Appliance (Brand: Check Point / Model: V-81WLR) |
|-------------------------|----------------------------------------------------------------------------|
| Antenna Model           | RFDPA171300SBLB801                                                         |
| Antenna Type            | Dipole Antenna                                                             |
| Massinas and Cain (dDi) | 2412-2462MHz: 2.22                                                         |
| Maximum Gain (dBi)      | 5180-5825MHz: 4.29                                                         |

The Platform is authorized for use frequency bands: 2412-2462MHz, 5180-5240MHz and 5745-5825MHz only.

7. Accessory device of Platform as follows.

| Brand | Model        | Rating                                                            |  |  |
|-------|--------------|-------------------------------------------------------------------|--|--|
|       |              | AC I/P : 100-240V ~ 2.0A 50-60Hz<br>DC O/P: 12.0V ===10.0A 120.0W |  |  |
| FSP   | FSP120-AHAN3 | Power cord:                                                       |  |  |
|       |              | Non-shielded AC 3 Pin (1.8m)                                      |  |  |
|       |              | Non-shielded DC cable (1.45m) with one ferrite core               |  |  |

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

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## 3 RF Exposure

## 2.1 Limits for Maximum Permissible Exposure (MPE)

| Frequency Range<br>(MHz) | Electric Field<br>Strength (V/m)                      | Magnetic Field<br>Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Average Time<br>(minutes) |  |  |  |
|--------------------------|-------------------------------------------------------|----------------------------------|-------------------------------------|---------------------------|--|--|--|
|                          | Limits For General Population / Uncontrolled Exposure |                                  |                                     |                           |  |  |  |
| 0.3-1.34                 | 614                                                   | 1.63                             | (100)*                              | 30                        |  |  |  |
| 1.34-30                  | 824/f                                                 | 2.19/f                           | (180/f <sup>2</sup> )*              | 30                        |  |  |  |
| 30-300                   | 27.5                                                  | 0.073                            | 0.2                                 | 30                        |  |  |  |
| 300-1500                 |                                                       |                                  | f/1500                              | 30                        |  |  |  |
| 1500-100,000             |                                                       |                                  | 1.0                                 | 30                        |  |  |  |

f = Frequency in MHz; \*Plane-wave equivalent power density

## 2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$ 

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

#### 2.3 Classification

The antenna of this product, under normal use condition, is at least 29cm away from the body of the user. So, this device is classified as **Mobile Device**.

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#### 2.4 Calculation Result of Maximum Conducted Power

### WiFi Module (FCC ID: TK4WLE900VX)

|                      |                    | <u> </u>              |    |        |                   |
|----------------------|--------------------|-----------------------|----|--------|-------------------|
| Frequency Band (MHz) | Max Power<br>(dBm) | Antenna Gain<br>(dBi) |    |        | Limit<br>(mW/cm²) |
| 2412-2462            | 23.20              | 6.99                  | 29 | 0.0989 | 1                 |
| 5180-5240            | 21.45              | 9.06                  | 29 | 0.1064 | 1                 |
| 5745~5825            | 24.05              | 9.06                  | 29 | 0.1936 | 1                 |

### Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. 4GHz: Directional gain = 2.22dBi + 10log(3) = 6.99dBi
 5.0GHz: Directional gain = 4.29dBi + 10log(3) = 9.06dBi

## LTE Module (FCC ID: N7NEM7455)

| Max Power<br>(dBm) | Antenna Gain<br>(dBi)                                                                     | Distance (cm)                                                                                                                                                                                                                                                           | Power<br>Density<br>(mW/cm²)                                                                                                                                                                                                                                                                                                              | Limit<br>(mW/cm²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22.90              | 1.56                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0264                                                                                                                                                                                                                                                                                                                                    | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 23.45              | 3.2                                                                                       | 29                                                                                                                                                                                                                                                                      | 0.0438                                                                                                                                                                                                                                                                                                                                    | 0.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 22.88              | 1.62                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0267                                                                                                                                                                                                                                                                                                                                    | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 22.60              | 1.62                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0250                                                                                                                                                                                                                                                                                                                                    | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 23.15              | 3.2                                                                                       | 29                                                                                                                                                                                                                                                                      | 0.0408                                                                                                                                                                                                                                                                                                                                    | 0.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 21.02              | 0.86                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0146                                                                                                                                                                                                                                                                                                                                    | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 23.20              | 1.49                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0279                                                                                                                                                                                                                                                                                                                                    | 0.47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 23.06              | 1.66                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0281                                                                                                                                                                                                                                                                                                                                    | 0.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 22.24              | 1.56                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0227                                                                                                                                                                                                                                                                                                                                    | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 22.98              | 3.2                                                                                       | 29                                                                                                                                                                                                                                                                      | 0.0393                                                                                                                                                                                                                                                                                                                                    | 0.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 22.97              | 3.2                                                                                       | 29                                                                                                                                                                                                                                                                      | 0.0392                                                                                                                                                                                                                                                                                                                                    | 0.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 21.25              | 2.27                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0213                                                                                                                                                                                                                                                                                                                                    | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 20.91              | 0.86                                                                                      | 29                                                                                                                                                                                                                                                                      | 0.0142                                                                                                                                                                                                                                                                                                                                    | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                    | (dBm)  22.90  23.45  22.88  22.60  23.15  21.02  23.20  23.06  22.24  22.98  22.97  21.25 | (dBm)     (dBi)       22.90     1.56       23.45     3.2       22.88     1.62       22.60     1.62       23.15     3.2       21.02     0.86       23.20     1.49       23.06     1.66       22.24     1.56       22.98     3.2       22.97     3.2       21.25     2.27 | (dBm)     (dBi)     (cm)       22.90     1.56     29       23.45     3.2     29       22.88     1.62     29       22.60     1.62     29       23.15     3.2     29       21.02     0.86     29       23.20     1.49     29       23.06     1.66     29       22.24     1.56     29       22.98     3.2     29       21.25     2.27     29 | Max Power (dBm)         Antenna Gain (dBi)         Distance (cm)         Density (mW/cm²)           22.90         1.56         29         0.0264           23.45         3.2         29         0.0438           22.88         1.62         29         0.0267           22.60         1.62         29         0.0250           23.15         3.2         29         0.0408           21.02         0.86         29         0.0146           23.20         1.49         29         0.0279           23.06         1.66         29         0.0281           22.24         1.56         29         0.0393           22.97         3.2         29         0.0392           21.25         2.27         29         0.0213 |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

#### **Conclusion:**

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + .....etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Simultaneously transmitter condition:

WLAN 5GHz + LTE = 0.1936 + 0.0438/0.55 = 0.2732

Therefore the maximum calculations of above situations are less than the "1" limit.

--- END ---

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