



## Maximum Permissible Exposure Report

### 1. Product Information

|                     |   |
|---------------------|---|
| FCC ID              | : 2A8Q4-VIM1S   |
| EUT                 | : VIM1S   |
| Test Model          | : VIM1S   |
| Power Supply        | : Type-C Power Input: DC 5V, 2A<br>USB1 Output: DC 5V, 500mA/ USB2 Output: DC 5V, 750mA   |
| Hardware Version    | : V11   |
| Software Version    | : OOWOW V1.0  |
| Bluetooth           | :   |
| Frequency Range     | : 2402MHz~2480MHz   |
| Channel Number      | : 79 channels for Bluetooth V5.0(DSS)<br>40 channels for Bluetooth V5.0 (DTS)   |
| Channel Spacing     | : 1MHz for Bluetooth V5.0 (DSS)<br>2MHz for Bluetooth V5.0 (DTS)  |
| Modulation Type     | : GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0(DSS)<br>GFSK for Bluetooth V5.0 (DTS)   |
| Bluetooth Version   | : V5.0  |
| Antenna Description | : FPC Antenna, 2.47dBi(Max.)  |
| WIFI(2.4G Band)     | :   |
| Frequency Range     | : 2412MHz~2462MHz   |
| Channel Spacing     | : 5MHz  |
| Channel Number      | : 11 Channels for 20MHz bandwidth (2412~2462MHz)  |
| Modulation Type     | : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)      |
| Antenna Description | : FPC Antenna, 2.47dBi(Max.)  |
| 5.2G WLAN           | :   |
| Frequency Range     | : 5180MHz~5240MHz   |
| Channel Number      | : 4 channels for 20MHz bandwidth(5180MHz~5240MHz)<br>2 channels for 40MHz bandwidth(5190MHz~5230MHz)<br>1 channels for 80MHz bandwidth(5210MHz) |
| Modulation Type     | : IEEE 802.11a/n/ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)  |
| Antenna Description | : FPC Antenna, 1.71dBi(Max.)  |
| 5.8G WLAN           | :   |
| Frequency Range     | : 5745MHz~5825MHz   |





|                     |   |
|---------------------|---|
| Channel Number      | : 5 channels for 20MHz bandwidth(5745MHz~5825MHz)<br>2 channels for 40MHz bandwidth(5755MHz~5795MHz)<br>1 channels for 80MHz bandwidth(5775MHz) |
| Modulation Type     | : IEEE 802.11a/n/ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)  |
| Antenna Description | : FPC Antenna, 3.93dBi(Max.)  |
| Exposure category   | : General population/uncontrolled environment   |
| EUT Type            | : Production Unit   |
| Device Type         | : Mobile Device   |

## 2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is  $\leq 1.0$ . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

## 3. Limit

### 3.1 Refer Evaluation Method

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices



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### 3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                   | 614                          | 1.63                         | (100)*                              | 6                       |
| 3.0 – 30                                    | 1842/f                       | 4.89/f                       | (900/f <sup>2</sup> )*              | 6                       |
| 30 – 300                                    | 61.4                         | 0.163                        | 1.0                                 | 6                       |
| 300 – 1500                                  | /                            | /                            | f/300                               | 6                       |
| 1500 – 100,000                              | /                            | /                            | 5                                   | 6                       |

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                   | 614                          | 1.63                         | (100)*                              | 30                      |
| 3.0 – 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

### 4. MPE Calculation Method

Predication of MPE limit at a given distance  
Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

### 5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

| Antenna type and antenna number | Operate frequency band | Maximum antenna gain | Notes               |
|---------------------------------|------------------------|----------------------|---------------------|
| FPC Antenna                     | 2400MHz~2500MHz        | 2.47dBi              | BT/2.4 WLAN Antenna |
|                                 | 5180MHz~5240MHz        | 1.71dBi              | 5.2G WLAN Antenna   |
|                                 | 5745MHz~5825MHz        | 3.93dBi              | 5.8G WLAN Antenna   |



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## 6. Conducted Power

[BT]

| Mode     | Channel | Frequency(MHz) | Peak Conducted Output Power (dBm) |
|----------|---------|----------------|-----------------------------------|
| GFSK     | 0       | 2402           | 0.38                              |
|          | 39      | 2441           | 0.5                               |
|          | 78      | 2480           | 0.69                              |
| π/4DQPSK | 0       | 2402           | 0.52                              |
|          | 39      | 2441           | 0.23                              |
|          | 78      | 2480           | 0.07                              |
| 8DPSK    | 0       | 2402           | 0.56                              |
|          | 39      | 2441           | 0.33                              |
|          | 78      | 2480           | 0.46                              |

&lt;BT LE&gt;

| Mode | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|------|---------|-----------------|-----------------------------------|
| GFSK | 0       | 2402            | 2.32                              |
|      | 19      | 2440            | 2.57                              |
|      | 39      | 2480            | 2.3                               |

&lt;BT 2LE&gt;

| Mode | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|------|---------|-----------------|-----------------------------------|
| GFSK | 0       | 2402            | -2.99                             |
|      | 19      | 2440            | -2.99                             |
|      | 39      | 2480            | -3.67                             |

[2.4G WLAN]

| Mode              | Channel | Frequency(MHz) | Peak Conducted Output Power (dBm) |
|-------------------|---------|----------------|-----------------------------------|
| IEEE 802.11b      | 1       | 2412           | 13.32                             |
|                   | 6       | 2437           | 14.19                             |
|                   | 11      | 2462           | 14.91                             |
| IEEE 802.11g      | 1       | 2412           | 14.34                             |
|                   | 6       | 2437           | 15.12                             |
|                   | 11      | 2462           | 15.79                             |
| IEEE 802.11n HT20 | 1       | 2412           | 14.42                             |
|                   | 6       | 2437           | 12.88                             |
|                   | 11      | 2462           | 14.99                             |



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## [5.2G WLAN]

| Mode                | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|---------------------|---------|-----------------|--------------------------------------|
| IEEE 802.11a        | 36      | 5180            | 11.79                                |
|                     | 40      | 5200            | 11.51                                |
|                     | 48      | 5240            | 10.89                                |
| IEEE 802.11n HT20   | 36      | 5180            | 11.3                                 |
|                     | 40      | 5200            | 11.1                                 |
|                     | 48      | 5240            | 10.44                                |
| IEEE 802.11n HT40   | 38      | 5190            | 11.31                                |
|                     | 46      | 5230            | 10.49                                |
| IEEE 802.11ac VHT20 | 36      | 5180            | 11.28                                |
|                     | 40      | 5200            | 11.06                                |
|                     | 48      | 5240            | 10.49                                |
| IEEE 802.11ac VHT40 | 38      | 5190            | 11.19                                |
|                     | 46      | 5230            | 13.28                                |
| IEEE 802.11ac VHT80 | 42      | 5210            | 10.04                                |

## [5.8G WLAN]

| Mode                | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|---------------------|---------|-----------------|--------------------------------------|
| IEEE 802.11a        | 149     | 5745            | 10.38                                |
|                     | 157     | 5785            | 10.13                                |
|                     | 165     | 5825            | 9.1                                  |
| IEEE 802.11n HT20   | 149     | 5745            | 10.07                                |
|                     | 157     | 5785            | 9.55                                 |
|                     | 165     | 5825            | 8.77                                 |
| IEEE 802.11n HT40   | 151     | 5755            | 10.47                                |
|                     | 159     | 5795            | 9.63                                 |
| IEEE 802.11ac VHT20 | 149     | 5745            | 10.13                                |
|                     | 157     | 5785            | 9.52                                 |
|                     | 165     | 5825            | 8.52                                 |
| IEEE 802.11ac VHT40 | 151     | 5755            | 10.28                                |
|                     | 159     | 5795            | 9.73                                 |
| IEEE 802.11ac VHT80 | 155     | 5775            | 16.16                                |



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### 7. Manufacturing Tolerance

[BT]

| GFSK(Peak)       |            |            |            |
|------------------|------------|------------|------------|
| Channel          | Channel 00 | Channel 39 | Channel 78 |
| Target (dBm)     | 0          | 0          | 0          |
| Tolerance ± (dB) | 1.0        | 1.0        | 1.0        |
| π/4-DQPSK(Peak)  |            |            |            |
| Channel          | Channel 00 | Channel 39 | Channel 78 |
| Target (dBm)     | 0          | 0          | 0          |
| Tolerance ± (dB) | 1.0        | 1.0        | 1.0        |
| 8-DPSK(Peak)     |            |            |            |
| Channel          | Channel 00 | Channel 39 | Channel 78 |
| Target (dBm)     | 0          | 0          | 0          |
| Tolerance ± (dB) | 1.0        | 1.0        | 1.0        |

[BT LE]

| GFSK(Peak)       |            |            |            |
|------------------|------------|------------|------------|
| Channel          | Channel 00 | Channel 19 | Channel 39 |
| Target (dBm)     | 2.0        | 2.0        | 2.0        |
| Tolerance ± (dB) | 1.0        | 1.0        | 1.0        |

[BT 2LE]

| GFSK(Peak)       |            |            |            |
|------------------|------------|------------|------------|
| Channel          | Channel 00 | Channel 19 | Channel 39 |
| Target (dBm)     | -2.0       | -2.0       | -3.0       |
| Tolerance ± (dB) | 1.0        | 1.0        | 1.0        |

[2.4G WLAN]

| IEEE 802.11b(Peak)   |            |            |            |
|----------------------|------------|------------|------------|
| Channel              | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)         | 13.0       | 14.0       | 14.0       |
| Tolerance ± (dB)     | 1.0        | 1.0        | 1.0        |
| IEEE 802.11g(Peak)   |            |            |            |
| Channel              | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)         | 14.0       | 15.0       | 15.0       |
| Tolerance ± (dB)     | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n20(Peak) |            |            |            |
| Channel              | Channel 01 | Channel 06 | Channel 11 |
| Target (dBm)         | 14.0       | 12.0       | 14.0       |
| Tolerance ± (dB)     | 1.0        | 1.0        | 1.0        |





[5.2G WLAN]

| IEEE 802.11a (Average)        |            |            |            |
|-------------------------------|------------|------------|------------|
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 11.0       | 11.0       | 10.0       |
| Tolerance ± (dB)              | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT20 (Average)   |            |            |            |
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 11.0       | 11.0       | 10.0       |
| Tolerance ± (dB)              | 1.0        | 1.0        | 1.0        |
| IEEE 802.11n HT40 (Average)   |            |            |            |
| Channel                       | Channel 38 | Channel 46 |            |
| Target (dBm)                  | 11.0       | 10.0       |            |
| Tolerance ± (dB)              | 1.0        | 1.0        |            |
| IEEE 802.11ac VHT20 (Average) |            |            |            |
| Channel                       | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)                  | 11.0       | 11.0       | 10.0       |
| Tolerance ± (dB)              | 1.0        | 1.0        | 1.0        |
| IEEE 802.11ac VHT40 (Average) |            |            |            |
| Channel                       | Channel 38 | Channel 46 |            |
| Target (dBm)                  | 11.0       | 13.0       |            |
| Tolerance ± (dB)              | 1.0        | 1.0        |            |
| IEEE 802.11ac VHT80(Average)  |            |            |            |
| Channel                       | Channel 42 |            |            |
| Target (dBm)                  | 10.0       |            |            |
| Tolerance ± (dB)              | 1.0        |            |            |





## [5.8G WLAN]

| IEEE 802.11a (Average)        |             |             |             |
|-------------------------------|-------------|-------------|-------------|
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 10.0        | 10.0        | 9.0         |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11n HT20 (Average)   |             |             |             |
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 10.0        | 9.0         | 8.0         |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11n HT40 (Average)   |             |             |             |
| Channel                       | Channel 151 | Channel 159 |             |
| Target (dBm)                  | 10.0        | 9.0         |             |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         |             |
| IEEE 802.11ac VHT20 (Average) |             |             |             |
| Channel                       | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)                  | 10.0        | 9.0         | 8.0         |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         | 1.0         |
| IEEE 802.11ac VHT40 (Average) |             |             |             |
| Channel                       | Channel 151 | Channel 159 |             |
| Target (dBm)                  | 10.0        | 9.0         |             |
| Tolerance $\pm$ (dB)          | 1.0         | 1.0         |             |
| IEEE 802.11ac VHT80(Average)  |             |             |             |
| Channel                       | Channel 155 |             |             |
| Target (dBm)                  | 16.0        |             |             |
| Tolerance $\pm$ (dB)          | 1.0         |             |             |







## 8. Measurement Results

### 8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance,  $r = 20\text{cm}$ , as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BT]

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | 1.00         | 1.2589 | 2.47               | 1.7660                | 0.0004                    | 1.0000                           |
| $\pi/4$ DQPSK   | 1.00         | 1.2589 | 2.47               | 1.7660                | 0.0004                    | 1.0000                           |
| 8DPSK           | 1.00         | 1.2589 | 2.47               | 1.7660                | 0.0004                    | 1.0000                           |

[BT LE]

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | 3.00         | 1.9953 | 2.47               | 1.7660                | 0.0007                    | 1.0000                           |

[BT 2LE]

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | -1.00        | 0.7943 | 2.47               | 1.7660                | 0.0003                    | 1.0000                           |

[2.4G WLAN]

| Modulation Type   | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                   | dBm          | mW      |                    |                       |                           |                                  |
| IEEE 802.11b      | 15.00        | 31.6228 | 2.47               | 1.7660                | 0.0111                    | 1.0000                           |
| IEEE 802.11g      | 16.00        | 39.8107 | 2.47               | 1.7660                | 0.0140                    | 1.0000                           |
| IEEE 802.11n HT20 | 15.00        | 31.6228 | 2.47               | 1.7660                | 0.0111                    | 1.0000                           |

[5.2G WLAN]

| Modulation Type     | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|---------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                     | dBm          | mW      |                    |                       |                           |                                  |
| IEEE 802.11a        | 12.0         | 15.8489 | 1.71               | 1.4825                | 0.0047                    | 1.0000                           |
| IEEE 802.11n HT20   | 12.0         | 15.8489 | 1.71               | 1.4825                | 0.0047                    | 1.0000                           |
| IEEE 802.11n HT40   | 12.0         | 15.8489 | 1.71               | 1.4825                | 0.0047                    | 1.0000                           |
| IEEE 802.11ac VHT20 | 12.0         | 15.8489 | 1.71               | 1.4825                | 0.0047                    | 1.0000                           |
| IEEE 802.11ac VHT40 | 14.0         | 25.1189 | 1.71               | 1.4825                | 0.0074                    | 1.0000                           |
| IEEE 802.11ac VHT80 | 11.0         | 12.5893 | 1.71               | 1.4825                | 0.0037                    | 1.0000                           |



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[5.8G WLAN]

| Modulation Type     | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|---------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                     | dBm          | mW      |                    |                       |                           |                                  |
| IEEE 802.11a        | 11.0         | 12.5893 | 3.93               | 2.4717                | 0.0062                    | 1.0000                           |
| IEEE 802.11n HT20   | 11.0         | 12.5893 | 3.93               | 2.4717                | 0.0062                    | 1.0000                           |
| IEEE 802.11n HT40   | 11.0         | 12.5893 | 3.93               | 2.4717                | 0.0062                    | 1.0000                           |
| IEEE 802.11ac VHT20 | 11.0         | 12.5893 | 3.93               | 2.4717                | 0.0062                    | 1.0000                           |
| IEEE 802.11ac VHT40 | 11.0         | 12.5893 | 3.93               | 2.4717                | 0.0062                    | 1.0000                           |
| IEEE 802.11ac VHT80 | 17.0         | 50.1187 | 3.93               | 2.4717                | 0.0247                    | 1.0000                           |

Remark:

1. Output power including turn-up tolerance;
2. Output power is burst average power;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer;
4. MPE values =  $PG/4\pi R^2$

8.2 Simultaneous Transmission MPE

The EUT equipped with one module and one antenna. So no need consider simultaneous transmission.

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

-----THE END OF REPORT-----

