# FCC 47 CFR MPE REPORT

DEI Sales, Inc., dba Polk Audio

HOME THEATE SYSTEM

Model Number: SIGNA S3 SOUND BAR

FCC ID: WLQSIGNAS3

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|---|---|
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# Maximum Permissible Exposure

## 1. Applicable Standards

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

### 1.1. Limits for Maximum Permissible Exposure (MPE)

**(a) Limits for Occupational/Controlled Exposure**

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) ($mW/cm^2$) | Averaging Times $\|E\|^2$, $\|H\|^2$ or S (minutes) |
|---|---|---|---|---|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | | | F/300 | 6 |
| 1500-10000 | | | 5 | 6 |

**(b) Limits for General Population / Uncontrolled Exposure**

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) ($mW/cm^2$) | Averaging Times $\|E\|^2$, $\|H\|^2$ or S (minutes) |
|---|---|---|---|---|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | | | F/1500 | 30 |
| 1500-10000 | | | 1.o | 30 |

Note: f=frequency in MHz; *Plane-wave equivalent power density

## 1.2. MPE Calculation Method

$$E\ (V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd\ (W/m^2) = \frac{E^2}{377}$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

# 2. Applicable Standards

Antenna 1

| Mode | Frequency (MHz) | Peak output power (dBm) | Peak output power (mW) | Target power (dBm) | Antenna gain | |
|---|---|---|---|---|---|---|
| | | | | | (dBi) | (Linear) |
| GFSK | 2402 | 5.78 | 3.7844 | 5±1 | 3.88 | 2.4434 |
| | 2441 | 6.41 | 4.3752 | 6±1 | 3.88 | 2.4434 |
| | 2480 | 7.02 | 5.0350 | 7±1 | 3.88 | 2.4434 |
| 8-DPSK | 2402 | 5.82 | 3.8194 | 5±1 | 3.88 | 2.4434 |
| | 2441 | 6.44 | 4.4055 | 6±1 | 3.88 | 2.4434 |
| | 2480 | 7.05 | 5.0699 | 7±1 | 3.88 | 2.4434 |
| BLE GFSK | 2402 | 1.82 | 1.5205 | 1±1 | 3.88 | 2.4434 |
| | 2440 | 2.40 | 1.7378 | 2±1 | 3.88 | 2.4434 |
| | 2480 | 2.97 | 1.9815 | 2±1 | 3.88 | 2.4434 |
| IEEE 802.11b | 2412 | 19.70 | 93.3254 | 19±1 | 3.88 | 2.4434 |
| | 2437 | 19.95 | 98.8553 | 19±1 | 3.88 | 2.4434 |
| | 2462 | 19.36 | 86.2979 | 19±1 | 3.88 | 2.4434 |
| IEEE 802.11g | 2412 | 24.88 | 307.6097 | 24±1 | 3.88 | 2.4434 |
| | 2437 | 25.00 | 316.2278 | 25±1 | 3.88 | 2.4434 |
| | 2462 | 24.49 | 281.1901 | 24±1 | 3.88 | 2.4434 |
| IEEE 802.11n 20 (2.4G) | 2412 | 23.57 | 227.5097 | 23±1 | 3.88 | 2.4434 |
| | 2437 | 23.69 | 233.8837 | 23±1 | 3.88 | 2.4434 |
| | 2462 | 23.15 | 206.5380 | 23±1 | 3.88 | 2.4434 |
| IEEE 802.11n 40 (2.4G) | 2422 | 22.86 | 193.1968 | 22±1 | 3.88 | 2.4434 |
| | 2437 | 22.89 | 194.5360 | 22±1 | 3.88 | 2.4434 |
| | 2452 | 22.88 | 194.0886 | 22±1 | 3.88 | 2.4434 |
| IEEE 802.11a (5G) | 5180 | 14.13 | 25.8821 | 14±1 | 3.81 | 2.4044 |
| | 5200 | 13.92 | 24.6604 | 13±1 | 3.81 | 2.4044 |
| | 5240 | 14.10 | 25.7040 | 14±1 | 3.81 | 2.4044 |
| | 5260 | 13.49 | 22.3357 | 13±1 | 3.81 | 2.4044 |
| | 5300 | 12.74 | 18.7932 | 12±1 | 3.81 | 2.4044 |
| | 5320 | 13.14 | 20.6063 | 13±1 | 3.81 | 2.4044 |
| | 5500 | 13.83 | 24.1546 | 13±1 | 3.81 | 2.4044 |
| | 5580 | 14.33 | 27.1019 | 14±1 | 3.81 | 2.4044 |
| | 5700 | 12.10 | 16.2181 | 12±1 | 3.81 | 2.4044 |
| | 5745 | 12.35 | 17.1791 | 12±1 | 3.81 | 2.4044 |
| | 5785 | 11.94 | 15.6315 | 11±1 | 3.81 | 2.4044 |
| | 5825 | 11.61 | 14.4877 | 11±1 | 3.81 | 2.4044 |

| Mode | Frequency (MHz) | Peak output power (dBm) | Peak output power (mW) | Target power (dBm) | Antenna gain | |
|---|---|---|---|---|---|---|
| | | | | | (dBi) | (Linear) |
| IEEE802.11nHT20 (5G) | 5180 | 13.01 | 19.9986 | 13±1 | 3.81 | 2.4044 |
| | 5200 | 13.06 | 20.2302 | 13±1 | 3.81 | 2.4044 |
| | 5240 | 12.86 | 19.3197 | 12±1 | 3.81 | 2.4044 |
| | 5260 | 12.20 | 16.5959 | 12±1 | 3.81 | 2.4044 |
| | 5300 | 11.60 | 14.4544 | 11±1 | 3.81 | 2.4044 |
| | 5320 | 11.86 | 15.3462 | 11±1 | 3.81 | 2.4044 |
| | 5500 | 12.58 | 18.1134 | 12±1 | 3.81 | 2.4044 |
| | 5580 | 13.18 | 20.7970 | 13±1 | 3.81 | 2.4044 |
| | 5700 | 11.31 | 13.5207 | 11±1 | 3.81 | 2.4044 |
| | 5745 | 11.34 | 13.6144 | 11±1 | 3.81 | 2.4044 |
| | 5785 | 10.96 | 12.4738 | 10±1 | 3.81 | 2.4044 |
| | 5825 | 10.46 | 11.1173 | 10±1 | 3.81 | 2.4044 |
| IEEE802.11ac20 (5G) | 5180 | 13.05 | 20.1837 | 13±1 | 3.81 | 2.4044 |
| | 5200 | 12.82 | 19.1426 | 12±1 | 3.81 | 2.4044 |
| | 5240 | 12.88 | 19.4089 | 12±1 | 3.81 | 2.4044 |
| | 5260 | 12.21 | 16.6341 | 12±1 | 3.81 | 2.4044 |
| | 5300 | 11.61 | 14.4877 | 11±1 | 3.81 | 2.4044 |
| | 5320 | 11.88 | 15.4170 | 11±1 | 3.81 | 2.4044 |
| | 5500 | 12.59 | 18.1552 | 12±1 | 3.81 | 2.4044 |
| | 5580 | 13.19 | 20.8449 | 13±1 | 3.81 | 2.4044 |
| | 5700 | 11.11 | 12.9122 | 11±1 | 3.81 | 2.4044 |
| | 5745 | 11.30 | 13.4896 | 11±1 | 3.81 | 2.4044 |
| | 5785 | 10.97 | 12.5026 | 10±1 | 3.81 | 2.4044 |
| | 5825 | 10.38 | 10.9144 | 10±1 | 3.81 | 2.4044 |

| Mode | Frequency (MHz) | Peak output power (dBm) | Peak output power (mW) | Target power (dBm) | Antenna gain | |
|---|---|---|---|---|---|---|
| | | | | | (dBi) | (Linear) |
| IEEE802.11nHT40 (5G) | 5190 | 12.24 | 16.7494 | 12±1 | 3.81 | 2.4044 |
| | 5230 | 12.20 | 16.5959 | 12±1 | 3.81 | 2.4044 |
| | 5270 | 11.24 | 13.3045 | 11±1 | 3.81 | 2.4044 |
| | 5310 | 10.93 | 12.3880 | 10±1 | 3.81 | 2.4044 |
| | 5510 | 11.96 | 15.7036 | 11±1 | 3.81 | 2.4044 |
| | 5670 | 12.39 | 17.3380 | 12±1 | 3.81 | 2.4044 |
| | 5755 | 10.73 | 11.8304 | 10±1 | 3.81 | 2.4044 |
| | 5795 | 9.92 | 9.8175 | 9±1 | 3.81 | 2.4044 |
| IEEE802.11ac40 (5G) | 5190 | 12.27 | 16.8655 | 12±1 | 3.81 | 2.4044 |
| | 5230 | 12.23 | 16.7109 | 12±1 | 3.81 | 2.4044 |
| | 5270 | 11.27 | 13.3968 | 11±1 | 3.81 | 2.4044 |
| | 5310 | 10.79 | 11.9950 | 10±1 | 3.81 | 2.4044 |
| | 5510 | 11.98 | 15.7761 | 11±1 | 3.81 | 2.4044 |
| | 5670 | 12.41 | 17.4181 | 12±1 | 3.81 | 2.4044 |
| | 5755 | 10.69 | 11.7220 | 10±1 | 3.81 | 2.4044 |
| | 5795 | 9.93 | 9.8401 | 9±1 | 3.81 | 2.4044 |
| IEEE802.11ac80 (5G) | 5210 | 12.15 | 16.4059 | 12±1 | 3.81 | 2.4044 |
| | 5290 | 11.17 | 13.0918 | 11±1 | 3.81 | 2.4044 |
| | 5530 | 12.36 | 17.2187 | 12±1 | 3.81 | 2.4044 |
| | 5610 | 11.91 | 15.5239 | 11±1 | 3.81 | 2.4044 |
| | 5775 | 10.38 | 10.9144 | 10±1 | 3.81 | 2.4044 |

**Antenna 2**

| Mode | Frequency (MHz) | Peak output power (dBm) | Peak output power (mW) | Target power (dBm) | Antenna gain | |
|---|---|---|---|---|---|---|
| | | | | | (dBi) | (Linear) |
| IEEE802.11b | 2412 | 19.00 | 79.4328 | 19±1 | 3.91 | 2.4604 |
| | 2437 | 18.96 | 78.7046 | 18±1 | 3.91 | 2.4604 |
| | 2462 | 19.37 | 86.4968 | 19±1 | 3.91 | 2.4604 |
| IEEE802.11g | 2412 | 24.19 | 262.4219 | 24±1 | 3.91 | 2.4604 |
| | 2437 | 24.35 | 272.2701 | 24±1 | 3.91 | 2.4604 |
| | 2462 | 24.05 | 254.0973 | 24±1 | 3.91 | 2.4604 |
| IEEE802.11nHT20 (2.4G) | 2412 | 22.97 | 198.1527 | 22±1 | 3.91 | 2.4604 |
| | 2437 | 23.08 | 203.2357 | 23±1 | 3.91 | 2.4604 |
| | 2462 | 23.24 | 210.8628 | 23±1 | 3.91 | 2.4604 |
| IEEE802.11nHT40 (2.4G) | 2422 | 22.30 | 169.8244 | 22±1 | 3.91 | 2.4604 |
| | 2437 | 22.29 | 169.4338 | 22±1 | 3.91 | 2.4604 |
| | 2452 | 22.30 | 169.8244 | 22±1 | 3.91 | 2.4604 |
| IEEE 802.11a (5G) | 5180 | 14.16 | 26.0615 | 14±1 | 3.37 | 2.1727 |
| | 5200 | 14.05 | 25.4097 | 14±1 | 3.37 | 2.1727 |
| | 5240 | 13.90 | 24.5471 | 13±1 | 3.37 | 2.1727 |
| | 5260 | 13.40 | 21.8776 | 13±1 | 3.37 | 2.1727 |
| | 5300 | 12.56 | 18.0302 | 12±1 | 3.37 | 2.1727 |
| | 5320 | 12.86 | 19.3197 | 12±1 | 3.37 | 2.1727 |
| | 5500 | 13.37 | 21.7270 | 13±1 | 3.37 | 2.1727 |
| | 5580 | 14.32 | 27.0396 | 14±1 | 3.37 | 2.1727 |
| | 5700 | 12.15 | 16.4059 | 12±1 | 3.37 | 2.1727 |
| | 5745 | 12.35 | 17.1791 | 12±1 | 3.37 | 2.1727 |
| | 5785 | 11.97 | 15.7398 | 11±1 | 3.37 | 2.1727 |
| | 5825 | 11.46 | 13.9959 | 11±1 | 3.37 | 2.1727 |

| Mode | Frequency (MHz) | Peak output power (dBm) | Peak output power (mW) | Target power (dBm) | Antenna gain | |
|---|---|---|---|---|---|---|
| | | | | | (dBi) | (Linear) |
| IEEE802.11nHT20 (5G) | 5180 | 13.00 | 19.9526 | 13±1 | 3.37 | 2.1727 |
| | 5200 | 12.77 | 18.9234 | 12±1 | 3.37 | 2.1727 |
| | 5240 | 12.88 | 19.4089 | 12±1 | 3.37 | 2.1727 |
| | 5260 | 12.38 | 17.2982 | 12±1 | 3.37 | 2.1727 |
| | 5300 | 11.32 | 13.5519 | 11±1 | 3.37 | 2.1727 |
| | 5320 | 11.65 | 14.6218 | 11±1 | 3.37 | 2.1727 |
| | 5500 | 12.23 | 16.7109 | 12±1 | 3.37 | 2.1727 |
| | 5580 | 13.23 | 21.0378 | 13±1 | 3.37 | 2.1727 |
| | 5700 | 11.10 | 12.8825 | 11±1 | 3.37 | 2.1727 |
| | 5745 | 11.20 | 13.1826 | 11±1 | 3.37 | 2.1727 |
| | 5785 | 10.96 | 12.4738 | 10±1 | 3.37 | 2.1727 |
| | 5825 | 10.39 | 10.9396 | 10±1 | 3.37 | 2.1727 |
| IEEE802.11ac20 | 5180 | 13.04 | 20.1372 | 13±1 | 3.37 | 2.1727 |
| | 5200 | 12.90 | 19.4984 | 12±1 | 3.37 | 2.1727 |
| | 5240 | 12.87 | 19.3642 | 12±1 | 3.37 | 2.1727 |
| | 5260 | 12.39 | 17.3380 | 12±1 | 3.37 | 2.1727 |
| | 5300 | 11.31 | 13.5207 | 11±1 | 3.37 | 2.1727 |
| | 5320 | 11.63 | 14.5546 | 11±1 | 3.37 | 2.1727 |
| | 5500 | 12.23 | 16.7109 | 12±1 | 3.37 | 2.1727 |
| | 5580 | 13.29 | 21.3304 | 13±1 | 3.37 | 2.1727 |
| | 5700 | 11.15 | 13.0317 | 11±1 | 3.37 | 2.1727 |
| | 5745 | 11.22 | 13.2434 | 11±1 | 3.37 | 2.1727 |
| | 5785 | 10.96 | 12.4738 | 10±1 | 3.37 | 2.1727 |
| | 5825 | 10.39 | 10.9396 | 10±1 | 3.37 | 2.1727 |

| Mode | Frequency (MHz) | Peak output power (dBm) | Peak output power (mW) | Target power (dBm) | Antenna gain | |
|---|---|---|---|---|---|---|
| | | | | | (dBi) | (Linear) |
| IEEE802.11n40 (5G) | 5190 | 12.23 | 16.7109 | 12±1 | 3.37 | 2.1727 |
| | 5230 | 12.10 | 16.2181 | 12±1 | 3.37 | 2.1727 |
| | 5270 | 11.04 | 12.7057 | 11±1 | 3.37 | 2.1727 |
| | 5310 | 10.77 | 11.9399 | 10±1 | 3.37 | 2.1727 |
| | 5510 | 11.89 | 15.4525 | 11±1 | 3.37 | 2.1727 |
| | 5670 | 12.17 | 16.4816 | 12±1 | 3.37 | 2.1727 |
| | 5755 | 10.59 | 11.4551 | 10±1 | 3.37 | 2.1727 |
| | 5795 | 9.69 | 9.3111 | 9±1 | 3.37 | 2.1727 |
| IEEE802.11ac40 (5G) | 5190 | 12.28 | 16.9044 | 12±1 | 3.37 | 2.1727 |
| | 5230 | 12.15 | 16.4059 | 12±1 | 3.37 | 2.1727 |
| | 5270 | 11.07 | 12.7938 | 11±1 | 3.37 | 2.1727 |
| | 5310 | 10.80 | 12.0226 | 10±1 | 3.37 | 2.1727 |
| | 5510 | 11.91 | 15.5239 | 11±1 | 3.37 | 2.1727 |
| | 5670 | 12.20 | 16.5959 | 12±1 | 3.37 | 2.1727 |
| | 5755 | 10.61 | 11.5080 | 10±1 | 3.37 | 2.1727 |
| | 5795 | 9.74 | 9.4189 | 9±1 | 3.37 | 2.1727 |
| IEEE802.11ac80 (5G) | 5210 | 12.27 | 16.8655 | 12±1 | 3.37 | 2.1727 |
| | 5290 | 11.02 | 12.6474 | 11±1 | 3.37 | 2.1727 |
| | 5610 | 12.50 | 17.7828 | 12±1 | 3.37 | 2.1727 |
| | 5530 | 11.79 | 15.1008 | 11±1 | 3.37 | 2.1727 |
| | 5775 | 10.44 | 11.0662 | 10±1 | 3.37 | 2.1727 |

# 3. Calculated Result and Limit

**Antenna 1**

| Mode | Target power (dBm) | Antenna gain | | Power Density (S) ($mW/cm^2$) | Limited of Power Density (S) ($mW/cm^2$) | Test Result |
|---|---|---|---|---|---|---|
| | | (dBi) | (Linear) | | | |
| 2.4G Band | | | | | | |
| GFSK | 8 | 3.88 | 2.4434 | 0.00307 | 1 | Compiles |
| 8-DPSK | 8 | 3.88 | 2.4434 | 0.00307 | 1 | Compiles |
| BLE GFSK | 3 | 3.88 | 2.4434 | 0.00097 | 1 | Compiles |
| IEEE 802.11b | 20 | 3.88 | 2.4434 | 0.04861 | 1 | Compiles |
| IEEE 802.11g | 26 | 3.88 | 2.4434 | 0.19352 | 1 | Compiles |
| IEEE 802.11n HT20 | 24 | 3.88 | 2.4434 | 0.12210 | 1 | Compiles |
| IEEE 802.11n HT40 | 23 | 3.88 | 2.4434 | 0.09699 | 1 | Compiles |
| 5G Band | | | | | | |
| IEEE 802.11a | 15 | 3.81 | 2.4044 | 0.01513 | 1 | Compiles |
| IEEE 802.11n HT20 | 14 | 3.81 | 2.4044 | 0.01202 | 1 | Compiles |
| IEEE 802.11ac VHT20 | 14 | 3.81 | 2.4044 | 0.01202 | 1 | Compiles |
| IEEE 802.11n HT40 | 13 | 3.81 | 2.4044 | 0.00954 | 1 | Compiles |
| IEEE 802.11ac VHT40 | 13 | 3.81 | 2.4044 | 0.00954 | 1 | Compiles |
| IEEE 802.11ac VHT80 | 13 | 3.81 | 2.4044 | 0.00954 | 1 | Compiles |

For 2.4G SRD

Ant gain=3.88dBi

Ant numeric gain=2.443

Field strength = 94.29dBuV/m@3m

$P=\{ [10^{(94.29/20)} /10^6 *3]^2/ (30*2.443) \}*1000mW = 0.330mW$

Pd= (30*0.330*2.443) / (377*20^2)=0.00016< 1

**Antenna 2**

| Mode | Target power (dBm) | Antenna gain | | Power Density (S) ($mW/cm^2$) | Limited of Power Density (S) ($mW/cm^2$) | Test Result |
|---|---|---|---|---|---|---|
| | | (dBi) | (Linear) | | | |
| 2.4G Band | | | | | | |
| IEEE 802.11b | 20 | 3.91 | 2.4604 | 0.04895 | 1 | Compiles |
| IEEE 802.11g | 25 | 3.91 | 2.4604 | 0.15479 | 1 | Compiles |
| IEEE 802.11n HT20 | 24 | 3.91 | 2.4604 | 0.12295 | 1 | Compiles |
| IEEE 802.11n HT40 | 23 | 3.91 | 2.4604 | 0.09766 | 1 | Compiles |
| 5G Band | | | | | | |
| IEEE 802.11a | 15 | 3.37 | 2.1727 | 0.01367 | 1 | Compiles |
| IEEE 802.11n HT20 | 14 | 3.37 | 2.1727 | 0.01086 | 1 | Compiles |
| IEEE 802.11ac VHT20 | 14 | 3.37 | 2.1727 | 0.01086 | 1 | Compiles |
| IEEE 802.11n HT40 | 13 | 3.37 | 2.1727 | 0.00862 | 1 | Compiles |
| IEEE 802.11ac VHT40 | 13 | 3.37 | 2.1727 | 0.00862 | 1 | Compiles |
| IEEE 802.11ac VHT80 | 13 | 3.37 | 2.1727 | 0.00862 | 1 | Compiles |

**Antenna 1+2**

| Mode | Directional AntennaGain (Numeric) | Peak Output Power (mW) | Power Density (S) ($mW/cm^2$) Total | Limited of Power Density (S) ($mW/cm^2$) | Test Result |
|---|---|---|---|---|---|
| 2.4G Band | | | | | |
| IEEE 802.11n HT20 | 4.909 (6.91dBi) | 437.1 | 0.42688 | 1 | Compiles |
| IEEE 802.11n HT40 | 4.909 (6.91dBi) | 364.0 | 0.35549 | 1 | Compiles |
| 5G Band | | | | | |
| IEEE 802.11n HT20 | 4.571 (6.60dBi) | 41.8 | 0.03801 | 1 | Compiles |
| IEEE 802.11ac VHT20 | 4.571 (6.60dBi) | 42.2 | 0.03837 | 1 | Compiles |
| IEEE 802.11n HT40 | 4.571 (6.60dBi) | 33.8 | 0.03074 | 1 | Compiles |
| IEEE 802.11ac VHT40 | 4.571 (6.60dBi) | 34.0 | 0.03092 | 1 | Compiles |
| IEEE 802.11ac VHT80 | 4.571 (6.60dBi) | 35.0 | 0.03183 | 1 | Compiles |

**Total**

| Mode | BT (mW) | 2.4G Wi-Fi (mW) | 5G Wi-Fi (mW) | 2.4G SRD wireless (mW) | Power Density (S) ($mW/cm^2$) Total | Limited of Power Density (S) ($mW/cm^2$) | Test Result |
|---|---|---|---|---|---|---|---|
| MIMO Configuration 1 | 0.00307 | | | 0.00016 | 0.00323 | 1 | Compiles |
| MIMO Configuration 2 | | 0.42688 | | 0.00016 | 0.42704 | 1 | Compiles |
| MIMO Configuration 3 | | | 0.03837 | 0.00016 | 0.03853 | 1 | Compiles |

Note: 2.4 and 5GHz bands are share an antenna, Cann't both the 2.4 and 5 GHz bands operate simultaneously.

**End of Test Report**