Shenzhen Global Test Service Co.,Ltd.

GIS

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

RF Exposure evaluation

Report Reference No.....: GTS20191205016-1-5

FCC ID.....: 2AVE7-D019

Compiled by

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Date of issue Dec.12,2019

Representative Laboratory Name: Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative

Address...... Garden, No.98, Pingxin North Road, Shangmugu Community,

Pinghu Street, Longgang District, Shenzhen, Guangdong, China

Applicant's name...... Shenzhen Hotack Technology Co.,Ltd

Address...... Floor 4, Building A1,130 Silicon Valley Power Third Park, Si Li R

oad, guanlan street, Longhua District, Shenzhen, China

Test specification:

47CFR §1.1310

Standard 47CFR §2.1093

KDB447498 v06

TRF Originator Shenzhen Global Test Service Co.,Ltd.

Master TRF...... Dated 2014-12

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Test item description: projector

Trade Mark: N/A

Manufacturer...... Shenzhen Hotack Technology Co.,Ltd

Model/Type reference...... D019

Exposure category...... General population/uncontrolled environment

EUT Type...... Production Unit

Rating DC 3.8V form battery

Result..... PASS

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TEST REPORT

| Test Report No. : | GTS20191205016-1-5 | Dec.12,2019 |
|-------------------|--------------------|---------------|
| rest Report No | 01020191203010-1-3 | Date of issue |

Equipment under Test : projector

Model /Type : D019

Address

Address

Listed Models : D016, D017, D05, D013, D029, PIQO, XS2100 Pro, S60, GO200

Applicant : Shenzhen Hotack Technology Co.,Ltd

Floor 4, Building A1,130 Silicon Valley Power Third Park, Si Li Road,

guanlan street, Longhua District, Shenzhen, China

Manufacturer : Shenzhen Hotack Technology Co.,Ltd

Floor 4, Building A1,130 Silicon Valley Power Third Park, Si Li Road,

guanlan street, Longhua District, Shenzhen, China

| Test Result: PASS |
|-------------------|
|-------------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY

1.1. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- $\ensuremath{\bigcirc}$ supplied by the lab

| • | Adapter | Length (m): | 1.5m |
|---|---------|--------------|-----------------|
| | | Shield : | Non-Shielded |
| | | Detachable : | Non- Detachable |

1.2. Product Description

| Name of EUT | projector | | |
|-------------------------------|--|--|--|
| Trade Mark: | N/A | | |
| Model Number | D019 | | |
| Listed Models | D016, D017, D05, D013, D029, PIQO, XS2100 Pro, S60, GO200 | | |
| Model Declaration | PCB board, structure and internal of these model(s) are the same, So no additional models were tested. | | |
| FCC ID | 2AVE7-D019 | | |
| Power Supply | DC 3.8V form battery | | |
| Adapter information: | Model: KA24-0503000US Input: AC 100-240V~50/60Hz 0.55A Output:DC 5V/3A | | |
| WLAN | Supported 802.11 a/b/g/n/ac | | |
| Modulation Type | GFSK, π/4DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS) IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac20/40/80: OFDM(64QAM, 16QAM, QPSK, BPSK) | | |
| WLAN Operation frequency | IEEE 802.11a:5180-5240MHz 5745-5825MHz IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz, 5180-5240MHz 5745-5825MHz IEEE 802.11n HT40:2422-2452MHz, 5190-5230MHz 5755-5795MHz IEEE 802.11ac20:5180-5240MHz 5745-5825MHz IEEE 802.11ac40:5190-5230MHz 5755-5795MHz IEEE 802.11ac40:5190-5230MHz 5775MHz | | |
| Bluetooth Operation frequency | 2402-2480MHz | | |
| Antenna Description | FPC Antenna , 1.11dBi for 2.4G, 0.78dBi for 5G | | |
| Device Type | Portable Device | | |

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2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

2.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

2.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| Temperature: | 15-35 ° C |
|-----------------------|--------------|
| | |
| Humidity: | 30-60 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

2.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

| Test Items | Measurement Uncertainty | Notes |
|-----------------------------|-------------------------|-------|
| Transmitter power conducted | 0.57 dB | (1) |

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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3. Method of measurement

3.1. Applicable Standard

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 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 2.1093: Radiofrequency radiation exposure evaluation: portable devices

3.2. Evaluation Method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [Vf (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

 The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

a) The [\sum of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [\sum of MPE ratios] is \leq 1.0.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all \leq 0.04, and the [\sum of MPE ratios] is \leq 1.0.

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4. Conducted Power Results

Bluetooth

| Mode | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|-------------|---------|--------------------|-----------------------------------|
| | 0 | 2402 | 3.56 |
| GFSK | 39 | 2441 | 3.90 |
| | 78 | 2480 | 3.73 |
| | 0 | 2402 | 3.61 |
| π/4DQPSK | 39 | 2441 | 3.01 |
| | 78 | 2480 | 3.07 |
| | 0 | 2402 | 3.90 |
| 8DPSK | 39 | 2440 | 3.43 |
| | 78 | 2480 | 3.10 |
| GFSK(BT LE) | 0 | 2402 | 1.46 |
| | 19 | 2440 | 1.79 |
| | 39 | 2480 | 1.61 |

2.4GWLAN

| Mode | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) | |
|---------------|---------|--------------------|--------------------------------------|--|
| | 01 | 2412 | 8.39 | |
| 802.11b | 06 | 2437 | 8.49 | |
| | 11 | 2462 | 8.75 | |
| | 01 | 2412 | 8.39 | |
| 802.11g | 06 | 2437 | 8.48 | |
| | 11 | 2462 | 8.95 | |
| | 01 | 2412 | 7.31 | |
| 802.11n(HT20) | 06 | 2437 | 7.47 | |
| | 11 | 2462 | 7.97 | |
| 802.11n(HT40) | 03 | 2422 | 6.37 | |
| | 06 | 2437 | 6.39 | |
| | 09 | 2452 | 6.95 | |

5.2GWLAN

| V.= V · · = · · · · | | | | |
|---------------------|---------|--------------------|--------------------------------------|--|
| Mode | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) | |
| | 36 | 5180 | 7.29 | |
| 802.11a | 40 | 5200 | 7.70 | |
| | 48 | 5240 | 7.84 | |
| | 36 | 5180 | 7.22 | |
| 802.11n20 | 40 | 5200 | 7.75 | |
| | 48 | 5240 | 7.87 | |
| 802.11ac20 | 36 | 5180 | 7.31 | |
| | 40 | 5200 | 7.45 | |
| | 48 | 5240 | 7.01 | |
| 802.11n40 | 38 | 5190 | 7.27 | |
| | 46 | 5230 | 7.48 | |
| 802.11ac40 | 38 | 5190 | 7.24 | |
| | 46 | 5230 | 7.46 | |
| 802.11ac80 | 42 | 5210 | 7.22 | |

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5.8GWLAN

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| Mode | Channel | Frequency (MHz) | Average Conducted Output Power (dBm) |
|------------|---------|--------------------|--------------------------------------|
| | 149 | 5745 | 6.39 |
| 802.11a | 157 | 5785 | 6.58 |
| | 165 | 5825 | 6.84 |
| | 149 | 5745 | 6.36 |
| 802.11n20 | 157 | 5785 | 6.65 |
| | 165 | 5825 | 6.70 |
| | 149 | 5745 | 6.24 |
| 802.11ac20 | 157 | 5785 | 6.42 |
| | 165 | 5825 | 6.18 |
| 002 115 10 | 151 | 5755 | 6.30 |
| 802.11n40 | 159 | 5795 | 6.43 |
| 802.11ac40 | 151 | 5755 | 6.69 |
| | 159 | 5795 | 6.32 |
| 802.11ac80 | 155 | 5775 | 6.50 |

5. Manufacturing Tolerance

Bluetooth

| GFSK (Peak) | | | | | |
|-------------------|-----------|------------|------------|--|--|
| Channel | Channel 0 | Channel 39 | Channel 78 | | |
| Target (dBm) | 3.0 | 3.0 | 3.0 | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | |
| | π/4DQPS | SK (Peak) | | | |
| Channel | Channel 0 | Channel 39 | Channel 78 | | |
| Target (dBm) | 3.0 | 3.0 | 3.0 | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | |
| 8DPSK (Peak) | | | | | |
| Channel | Channel 0 | Channel 39 | Channel 78 | | |
| Target (dBm) | 3.0 | 3.0 | 3.0 | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | |
| GFSK BT LE (Peak) | | | | | |
| Channel | Channel 0 | Channel 19 | Channel 39 | | |
| Target (dBm) | 1.0 | 1.0 | 1.0 | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | |

2.4GWLAN

| | | TOTTLAIT | | | | |
|-----------------------------|-----------------------------|-------------|------------|--|--|--|
| IEEE 802.11b (Average) | | | | | | |
| Channel | Channel 01 | Channel 06 | Channel 11 | | | |
| Target (dBm) | 8.0 | 8.0 | 8.0 | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | |
| | IEEE 802.11 | g (Average) | | | | |
| Channel | Channel 01 | Channel 06 | Channel 11 | | | |
| Target (dBm) | 8.0 | 8.0 | 8.0 | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | |
| | IEEE 802.11n HT20 (Average) | | | | | |
| Channel | Channel 01 | Channel 06 | Channel 11 | | | |
| Target (dBm) | 7.0 | 7.0 | 7.0 | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | |
| IEEE 802.11n HT40 (Average) | | | | | | |
| Channel | Channel 01 | Channel 06 | Channel 11 | | | |
| Target (dBm) | 6.0 | 6.0 | 6.0 | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | |

5.2GWLAN

| IEEE 802.11a (Average) | | | | | | |
|------------------------------|-------------------------------|-------------------|------------|--|--|--|
| Channel | Channel 36 | Channel 40 | Channel 48 | | | |
| Target (dBm) | 7.0 | 7.0 | 7.0 | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | |
| | IEEE 802.11r | n HT20 (Average) | | | | |
| Channel | Channel 36 | Channel 40 | Channel 48 | | | |
| Target (dBm) | 7.0 | 7.0 | 7.0 | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | |
| | IEEE 802.11ad | : VHT20 (Average) | | | | |
| Channel | Channel 36 | Channel 40 | Channel 48 | | | |
| Target (dBm) | 7.0 | 7.0 | 7.0 | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | |
| IEEE 802.11n VHT40 (Average) | | | | | | |
| Channel | Channel 38 | Channel 46 | / | | | |
| Target (dBm) | 7.0 | 7.0 | / | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | / | | | |
| | IEEE 802.11ac | : VHT40 (Average) | | | | |
| Channel | Channel 38 | Channel 46 | / | | | |
| Target (dBm) | 7.0 | 7.0 | / | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | / | | | |
| | IEEE 802.11ac VHT80 (Average) | | | | | |
| Channel | Channel 42 | 1 | 1 | | | |
| Target (dBm) | 7.0 | / | / | | | |
| Tolerance ±(dB) | 1.0 | / | / | | | |

5.8GWLAN

| IEEE 802.11a (Average) | | | | | | | |
|-------------------------------|------------------------------|-------------------|-------------|--|--|--|--|
| Channel | Channel 149 | Channel 157 | Channel 165 | | | | |
| Target (dBm) | 6.0 | 6.0 | 6.0 | | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | | |
| | IEEE 802.11r | n HT20 (Average) | | | | | |
| Channel | Channel 149 | Channel 157 | Channel 165 | | | | |
| Target (dBm) | 6.0 | 6.0 | 6.0 | | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | | |
| | IEEE 802.11ad | : VHT20 (Average) | | | | | |
| Channel | Channel 149 | Channel 157 | Channel 165 | | | | |
| Target (dBm) | 6.0 | 6.0 | 6.0 | | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | 1.0 | | | | |
| | IEEE 802.11n VHT40 (Average) | | | | | | |
| Channel | Channel 151 | Channel 159 | / | | | | |
| Target (dBm) | 6.0 | 6.0 | / | | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | / | | | | |
| | IEEE 802.11ac | : VHT40 (Average) | | | | | |
| Channel | Channel 151 | Channel 159 | / | | | | |
| Target (dBm) | 6.0 | 6.0 | / | | | | |
| Tolerance ±(dB) | 1.0 | 1.0 | / | | | | |
| IEEE 802.11ac VHT80 (Average) | | | | | | | |
| Channel | Channel 155 | 1 | 1 | | | | |
| Target (dBm) | 6.0 | / | / | | | | |
| Tolerance ±(dB) | 1.0 | 1 | / | | | | |

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6. Evaluation Results

6.1 Standalone Evaluation

Bluetooth

| | | Antenna | RF outpu | ıt power | SAR Test | SAR Test |
|-------------|---------|------------------|----------|----------|------------------------|-----------|
| Band/Mode | f (GHz) | Distance (mm) | dBm | mW | Exclusion Threshold | Exclusion |
| 0 = 0 : f | | () | | | | |
| GFSK | 2.480 | 5 | 4.00 | 2.5119 | 0.79 < 3.0 | Yes |
| π/4DQPSK | 2.480 | 5 | 4.00 | 2.5119 | 0.79 < 3.0 | Yes |
| 8DPSK | 2.480 | 5 | 4.00 | 2.5119 | 0.79 < 3.0 | Yes |
| GFSK(BT LE) | 2.480 | 5 | 2.00 | 1.5849 | 0.50 < 3.0 | Yes |

2.4GWLAN

| | | Antenna | RF output power | | SAR Test | SAR Test |
|----------------------|---------|------------------|-----------------|--------|------------------------|-----------|
| Band/Mode | f (GHz) | Distance (mm) | dBm | mW | Exclusion Threshold | Exclusion |
| IEEE 802.11b | 2.462 | 5 | 9.00 | 7.9433 | 2.49 < 3.0 | Yes |
| IEEE 802.11g | 2.462 | 5 | 9.00 | 7.9433 | 2.49 < 3.0 | Yes |
| IEEE 802.11n HT20 | 2.462 | 5 | 8.00 | 6.3096 | 1.98 < 3.0 | Yes |
| IEEE 802.11n HT40 | 2.462 | 5 | 7.00 | 5.0119 | 1.57 < 3.0 | Yes |

5.2GWLAN

| | | Antenna | Antenna RF output power | SAR Test | SAR Test | |
|------------|---------|----------|-------------------------|----------|-----------|-----------|
| Band/Mode | f (GHz) | Distance | dBm | mW | Exclusion | Exclusion |
| | | (mm) | UDIII | abm mvv | Threshold | LACIUSION |
| 802.11a | 5.240 | 5 | 8.00 | 6.3096 | 2.9 < 3.0 | Yes |
| 802.11n20 | 5.240 | 5 | 8.00 | 6.3096 | 2.9 < 3.0 | Yes |
| 802.11ac20 | 5.240 | 5 | 8.00 | 6.3096 | 2.9 < 3.0 | Yes |
| 802.11n40 | 5.240 | 5 | 8.00 | 6.3096 | 2.9 < 3.0 | Yes |
| 802.11ac40 | 5.240 | 5 | 8.00 | 6.3096 | 2.9 < 3.0 | Yes |
| 802.11ac80 | 5.240 | 5 | 8.00 | 6.3096 | 2.9 < 3.0 | Yes |

5.8GWLAN

| | | Antenna | RF output power | | SAR Test | SAR Test |
|------------|---------|------------------|-----------------|--------|------------------------|-----------|
| Band/Mode | f (GHz) | Distance (mm) | dBm | mW | Exclusion Threshold | Exclusion |
| 802.11a | 5.825 | 5 | 7.00 | 5.0119 | 2.42 < 3.0 | Yes |
| 802.11n20 | 5.825 | 5 | 7.00 | 5.0119 | 2.42 < 3.0 | Yes |
| 802.11ac20 | 5.825 | 5 | 7.00 | 5.0119 | 2.42 < 3.0 | Yes |
| 802.11n40 | 5.825 | 5 | 7.00 | 5.0119 | 2.42 < 3.0 | Yes |
| 802.11ac40 | 5.825 | 5 | 7.00 | 5.0119 | 2.42 < 3.0 | Yes |
| 802.11ac80 | 5.825 | 5 | 7.00 | 5.0119 | 2.42 < 3.0 | Yes |

Remark:

- 1. Output power including tune up tolerance;
- 2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 of KDB447498 is applied to determine SAR test exclusion.

6.2 Simultaneous Transmission for SAR Exclusion

The sample support one Bluetooth &WLAN modular and one antenna, Not need consider simultaneous transmission;

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7. Conclusion

| The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06, No SAR is required. |
|--|
| End of Report |