

FCC Co-Location Test Report

FCC ID : YQMLLS090
Equipment : Focus Premium
Model No. : Focus Premium
Brand Name : FARO
Applicant : FARO Technologies, Inc.
Address : 250 Technology Park, Lake Mary, Florida,
United States, 32746
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
47 CFR FCC Part 15.209
Received Date : Dec. 16, 2021
Tested Date : Feb. 24, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

Table of Contents

| | | |
|----------|---|-----------|
| 1 | GENERAL DESCRIPTION | 5 |
| 1.1 | Information..... | 5 |
| 1.2 | The Equipment List | 7 |
| 1.3 | Test Standards | 8 |
| 1.4 | Reference Guidance | 8 |
| 1.5 | Deviation from Test Standard and Measurement Procedure..... | 8 |
| 1.6 | Measurement Uncertainty | 8 |
| 2 | TEST CONFIGURATION..... | 9 |
| 2.1 | Testing Facility | 9 |
| 2.2 | The Worst Test Modes and Channel Details | 9 |
| 3 | TRANSMITTER TEST RESULTS | 10 |
| 3.1 | Unwanted Emissions into Restricted Frequency Bands | 10 |
| 4 | TEST LABORATORY INFORMATION | 24 |

Release Record

| Report No. | Version | Description | Issued Date |
|------------|---------|---|---------------|
| FR1D1602CO | Rev. 01 | Initial issue | May 04, 2022 |
| FR1D1602CO | Rev. 02 | Corrected received date of test sample and company number of ISED | Jun. 14, 2022 |

Summary of Test Results

| FCC Rules | Test Items | Measured | Result |
|----------------------------------|--------------------|--|--------|
| 15.247(d) 15.407(b) 15.209 | Radiated Emissions | [dBuV/m at 3m]: 474.26MHz 44.98 (Margin -1.02dB) - QP | Pass |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

| WLAN | |
|----------------------------|---|
| Operating Frequency | 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz, 5745 ~ 5825 MHz |
| Modulation Type | 802.11b: DSSS (DBPSK/DQPSK/CCK) 802.11a/g/n/ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) |
| Bluetooth | |
| Operating Frequency | 2402 MHz ~ 2480 MHz |
| Modulation Type | Bluetooth 5.0 LE: GFSK Bluetooth BR(1Mbps): GFSK Bluetooth EDR (2Mbps): $\pi/4$ -DQPSK Bluetooth EDR (3Mbps): 8-DPSK |
| NFC | |
| Operating Frequency | 13.56 MHz |
| Modulation Type | NFC-ASK |

1.1.2 Antenna Details

Wi-Fi antenna

| Type | Connector | Operating Frequencies (MHz) / Antenna Gain (dBi) | | | |
|--------|-----------|--|-----------|-----------|-----------|
| | | 2400~2483.5 | 5150~5250 | 5250~5350 | 5470~5850 |
| Dipole | IPEX | 2.55 | 4.66 | 4.66 | 4.66 |

Bluetooth antenna

| Type | Connector | Gain (dBi) | Remark |
|--------|-----------|------------|--------|
| Dipole | UFL | 2.55 | --- |

NFC Antenna

| Type | Connector | Gain (dBi) | Remark |
|------------------------|-----------|------------|--------|
| PCB integrated Antenna | --- | --- | --- |

1.1.3 Power Supply Type of Equipment under Test (EUT)

| | |
|----------------|----------------------|
| Supply Voltage | 14.4Vdc from battery |
|----------------|----------------------|

1.1.4 Test Sample Information

| | |
|------------------------------|---------------------------------|
| Serial Number of Test Sample | Radiated Emission: LLS092125013 |
|------------------------------|---------------------------------|

1.2 The Equipment List

| Test Item | Radiated Emission | | | | |
|-------------------------|----------------------------|-------------------|-------------------------|------------------|-------------------|
| Test Site | 966 chamber3 / (03CH03-WS) | | | | |
| Tested Date | Feb. 24, 2022 | | | | |
| Instrument | Brand | Model No. | Serial No. | Calibration Date | Calibration Until |
| Spectrum Analyzer | R&S | FSV40 | 101499 | Mar. 02, 2021 | Mar. 01, 2022 |
| Horn Antenna 1G-18G | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1206 | Dec. 20, 2021 | Dec. 19, 2022 |
| Horn Antenna 18G-40G | SCHWARZBECK | BBHA 9170 | BBHA 9170508 | Jan. 11, 2022 | Jan. 10, 2023 |
| Preamplifier | Agilent | 83017A | MY39501309 | Sep. 06, 2021 | Sep. 05, 2022 |
| Preamplifier | EMC | EMC184045B | 980192 | Jul. 14, 2021 | Jul. 13, 2022 |
| RF cable-3M | HUBER+SUHNER | SUCOFLEX104 | MY22620/4 | Sep. 24, 2021 | Sep. 23, 2022 |
| RF cable-8M | EMC | EMC104-SM-SM-8000 | 181107 | Sep. 24, 2021 | Sep. 23, 2022 |
| Receiver | R&S | ESR3 | 101657 | Mar. 12, 2021 | Mar. 11, 2022 |
| Loop Antenna | R&S | HFH2-Z2 | 100330 | Nov. 08, 2021 | Nov. 07, 2022 |
| Bilog Antenna | SCHWARZBECK | VULB9168 | VULB9168-685 | May 06, 2021 | May 05, 2022 |
| Preamplifier | EMC | EMC02325 | 980187 | Jul. 26, 2021 | Jul. 25, 2022 |
| Loop Antenna Cable | KOAX KABEL | 101354-BW | 101354-BW | Oct. 05, 2021 | Oct. 04, 2022 |
| LF cable-0.8M | EMC | EMC8D-NM-NM-800 | EMC8D-NM-NM- 800-001 | Sep. 24, 2021 | Sep. 23, 2022 |
| LF cable-3M | EMC | EMC8D-NM-NM-3000 | 131103 | Sep. 24, 2021 | Sep. 23, 2022 |
| LF cable-13M | EMC | EMC8D-NM-NM-13000 | 131104 | Sep. 24, 2021 | Sep. 23, 2022 |
| Measurement Software | AUDIX | e3 | 6.120210g | NA | NA |

Note: Calibration Interval of instruments listed above is one year.

1.3 Test Standards

47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
47 CFR FCC Part 15.209
ANSI C63.10-2013

1.4 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

1.5 Deviation from Test Standard and Measurement Procedure

None

1.6 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

| Measurement Uncertainty | |
|-------------------------------|---------------|
| Parameters | Uncertainty |
| Radiated emission \leq 1GHz | ± 3.96 dB |
| Radiated emission $>$ 1GHz | ± 4.51 dB |

2 Test Configuration

2.1 Testing Facility

| | |
|-----------------------------|--|
| Test Laboratory | International Certification Corporation |
| Test Site | 03CH03-WS |
| Address of Test Site | No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.) |

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807C
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

| Test item | Test Mode |
|--|---|
| Radiated Emissions | Mode 1: 2.4G 11n HT20 CH06 + NFC Mode 2: 5G 11ac VHT20 CH64 + NFC Mode 3: BT EDR 8DPSK CH78 + NFC |
| NOTE 1: The selected channel is the maximum power channel of wireless mode. | |

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| Restricted Band Emissions Limit | | | |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz) | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 |
| 0.490~1.705 | 24000/F(kHz) | 33.8 - 23 | 30 |
| 1.705~30.0 | 30 | 29 | 30 |
| 30~88 | 100 | 40 | 3 |
| 88~216 | 150 | 43.5 | 3 |
| 216~960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

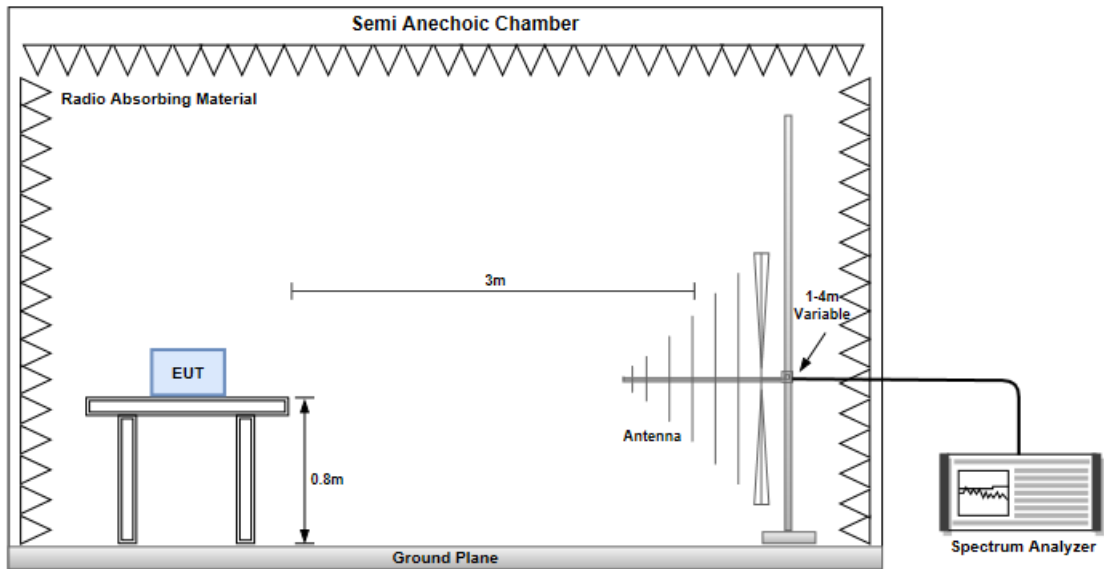
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

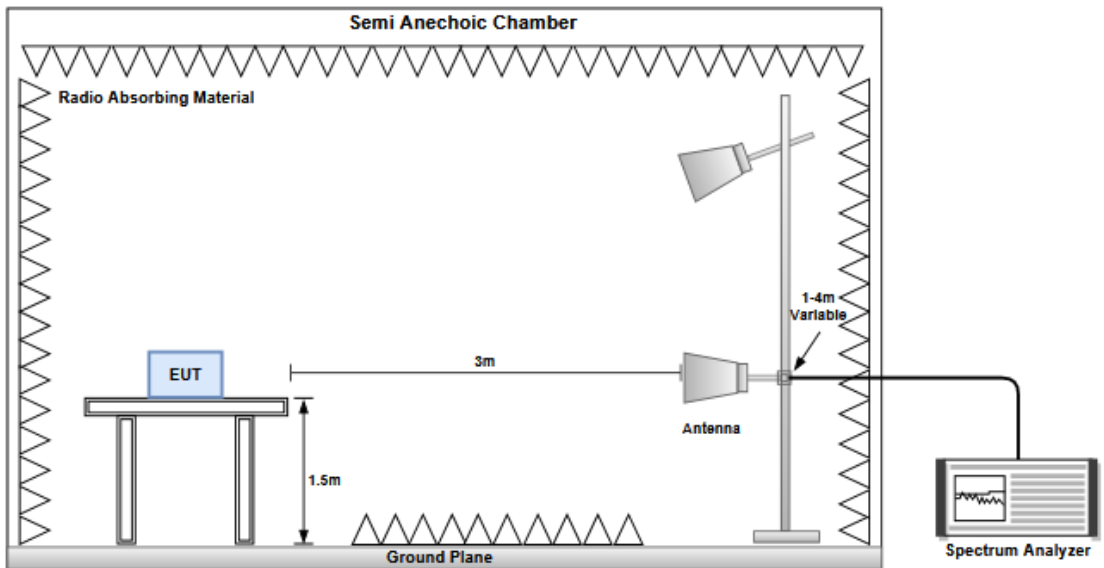
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

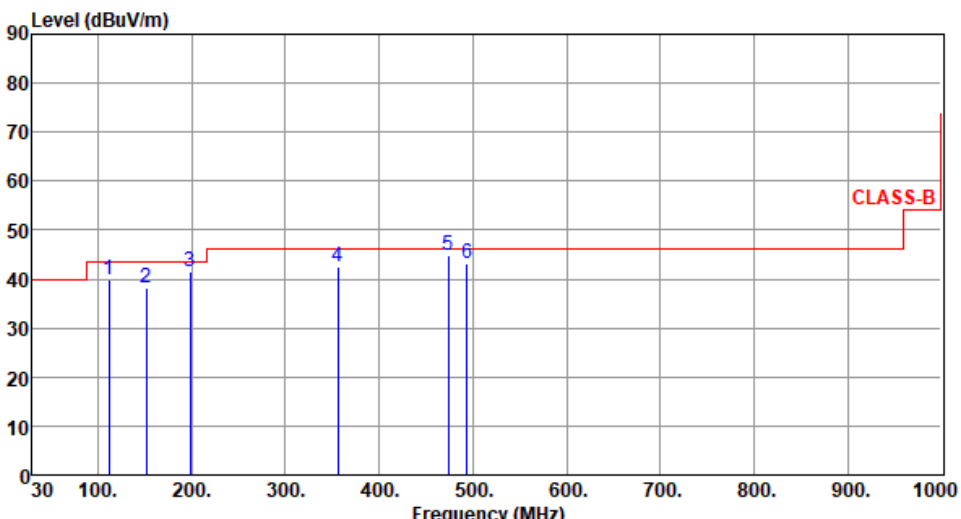
Radiated Emissions below 1 GHz



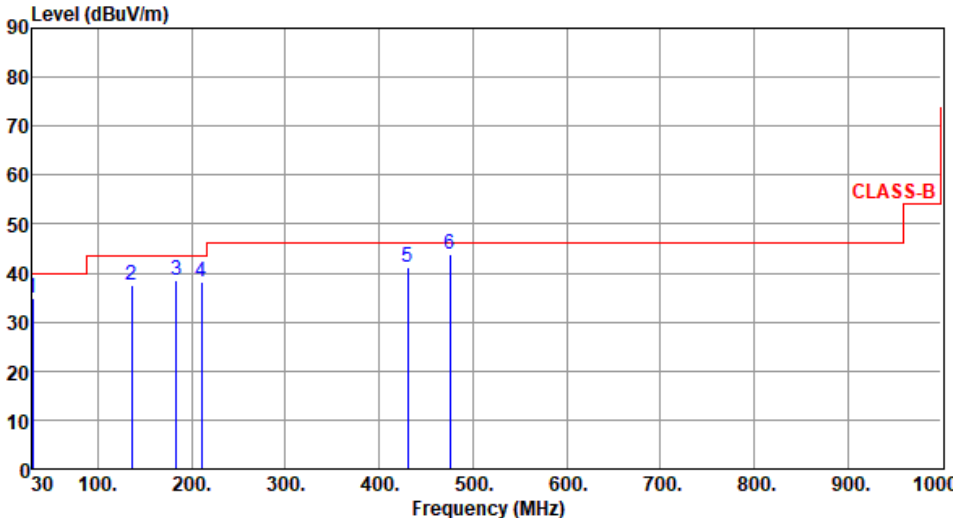
Radiated Emissions above 1 GHz

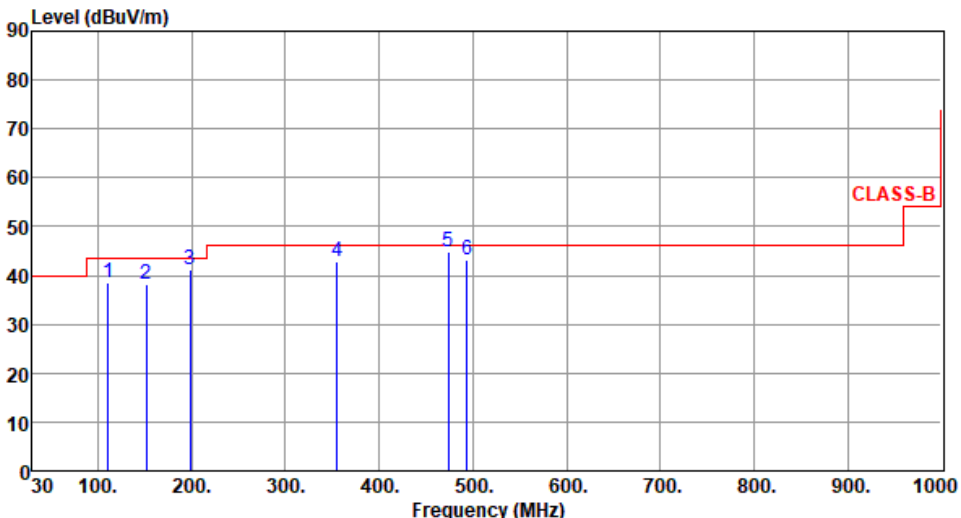


3.1.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

| | | | | | | | | | | |
|---|----------------------------------|----------|---------------------|--------|---------|-----------------|--------|------|-------|--|
| Test Mode | Mode 1: 2.4G 11n HT20 CH06 + NFC | | | | | | | | | |
| Polarization | Horizontal | | | | | | | | | |
| Test By : Akun Chung | | | Temperature(°C): 21 | | | Humidity(%): 69 | | | | |
|  | | | | | | | | | | |
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | |
| | MHz | level | dBuV/m | dB | reading | dB/m | | High | Table | |
| | | dBuV/m | dBuV/m | | dBuV | | | cm | deg | |
| 1 | 111.48 | 39.77 | 43.50 | -3.73 | 51.46 | -11.69 | Peak | --- | --- | |
| 2 | 151.25 | 38.11 | 43.50 | -5.39 | 46.71 | -8.60 | Peak | --- | --- | |
| 3 | 198.78 | 41.43 | 43.50 | -2.07 | 53.25 | -11.82 | QP | 122 | 228 | |
| 4 | 355.92 | 42.49 | 46.00 | -3.51 | 49.25 | -6.76 | Peak | --- | --- | |
| 5 | 474.26 | 44.98 | 46.00 | -1.02 | 48.14 | -3.16 | QP | 175 | 62 | |
| 6 | 493.66 | 43.05 | 46.00 | -2.95 | 45.87 | -2.82 | QP | 185 | 222 | |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

| | | | | | | | | | | |
|--|----------------------------------|----------|---------------------|--------|---------|-----------------|--------|------|-------|--|
| Test Mode | Mode 1: 2.4G 11n HT20 CH06 + NFC | | | | | | | | | |
| Polarization | Vertical | | | | | | | | | |
| Test By : Akun Chung | | | Temperature(°C): 21 | | | Humidity(%): 69 | | | | |
|  | | | | | | | | | | |
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | |
| | MHz | level | dBuV/m | dB | reading | dB/m | | High | Table | |
| | | dBuV/m | | | dBuV | | | cm | deg | |
| 1 | 30.00 | 35.03 | 40.00 | -4.97 | 45.51 | -10.48 | Peak | --- | --- | |
| 2 | 135.73 | 37.59 | 43.50 | -5.91 | 46.90 | -9.31 | Peak | --- | --- | |
| 3 | 183.26 | 38.69 | 43.50 | -4.81 | 49.12 | -10.43 | Peak | --- | --- | |
| 4 | 210.42 | 38.27 | 43.50 | -5.23 | 49.96 | -11.69 | Peak | --- | --- | |
| 5 | 430.61 | 41.04 | 46.00 | -4.96 | 45.40 | -4.36 | Peak | --- | --- | |
| 6 | 475.23 | 43.81 | 46.00 | -2.19 | 46.95 | -3.14 | QP | 100 | 5 | |
| <p>Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</p> | | | | | | | | | | |

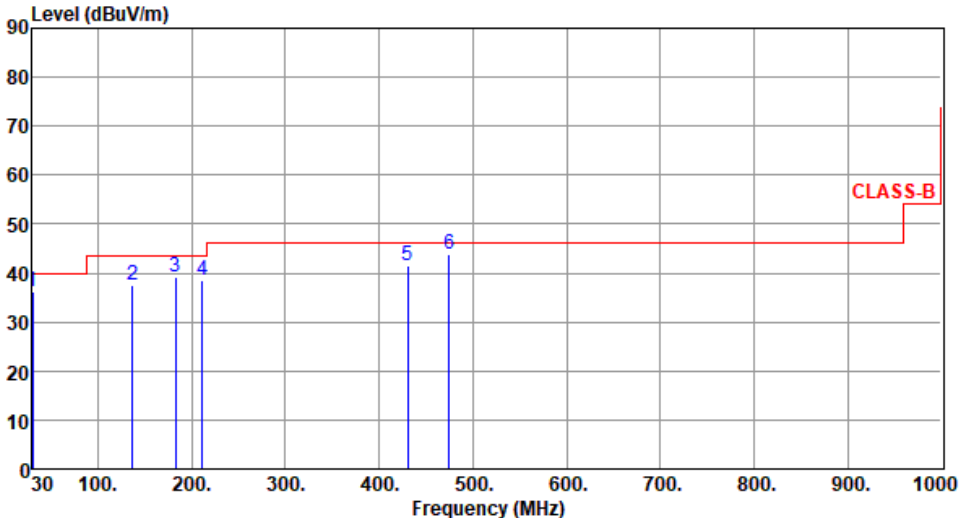
| | | | | | | | | | | |
|--|----------------------------------|----------|--------------------|--------|---------|----------------|--------|------|-------|--|
| Test Mode | Mode 2: 5G 11ac VHT20 CH64 + NFC | | | | | | | | | |
| Polarization | Horizontal | | | | | | | | | |
| Test By :Akun Chung | | | Temperature(°C):21 | | | Humidity(%):69 | | | | |
|  | | | | | | | | | | |
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | |
| | MHz | level | dBuV/m | dB | reading | dB/m | | High | Table | |
| | | dBuV/m | | | dBuV | | | cm | deg | |
| 1 | 110.55 | 38.55 | 43.50 | -4.95 | 50.39 | -11.84 | Peak | --- | --- | |
| 2 | 151.33 | 38.32 | 43.50 | -5.18 | 46.91 | -8.59 | Peak | --- | --- | |
| 3 | 198.55 | 41.22 | 43.50 | -2.28 | 53.04 | -11.82 | QP | 130 | 231 | |
| 4 | 354.95 | 42.80 | 46.00 | -3.20 | 49.58 | -6.78 | Peak | --- | --- | |
| 5 | 474.11 | 44.95 | 46.00 | -1.05 | 48.12 | -3.17 | QP | 174 | 63 | |
| 6 | 493.58 | 43.09 | 46.00 | -2.91 | 45.92 | -2.83 | QP | 184 | 223 | |

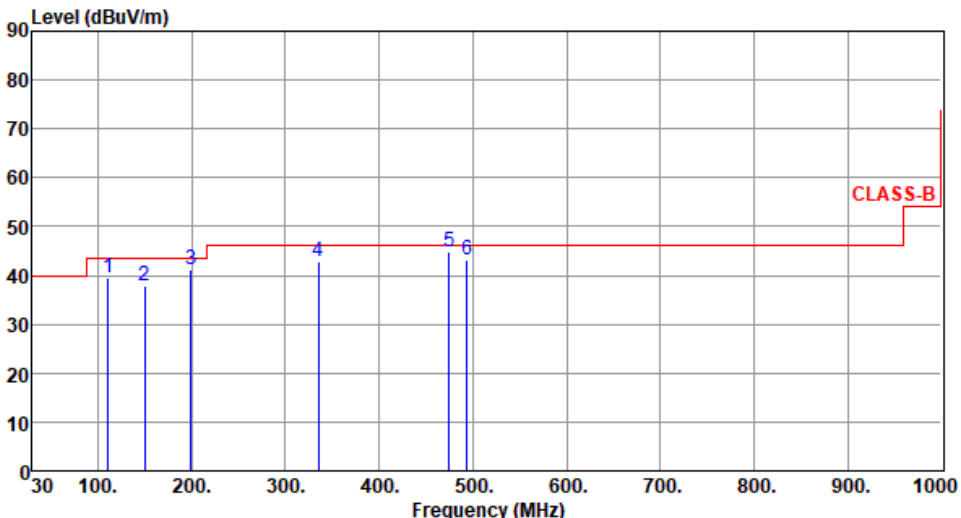
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

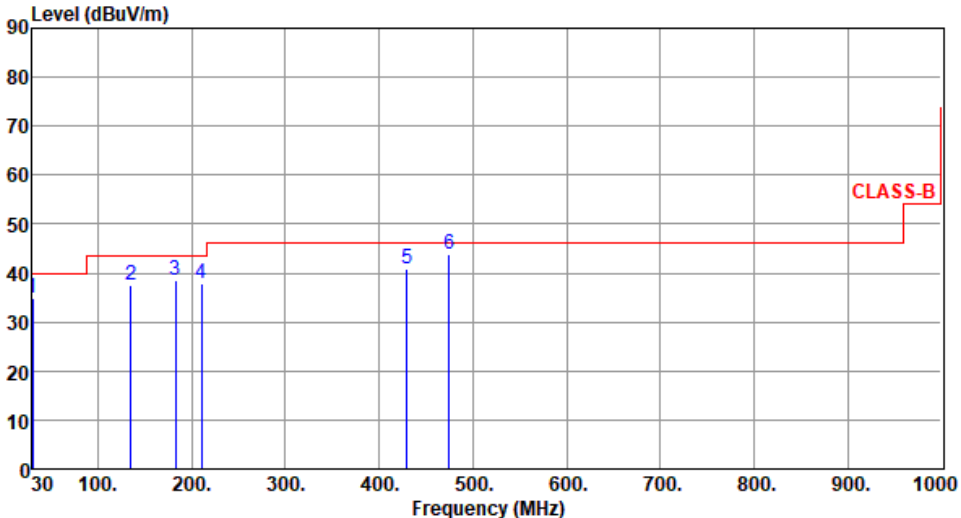
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

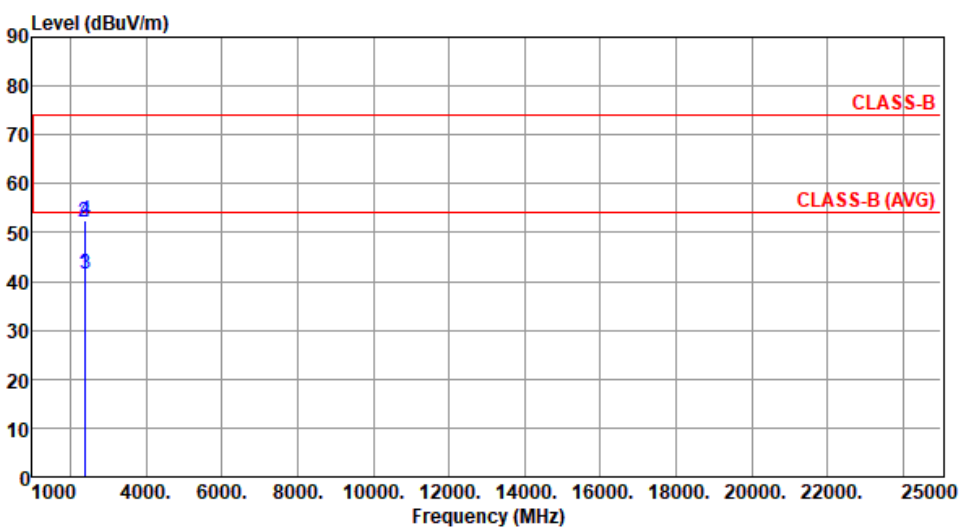
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

| | | | | | | | | | |
|--|----------------------------------|-----------------|--------|-------------|------------|--------|--------|----------|------------|
| Test Mode | Mode 2: 5G 11ac VHT20 CH64 + NFC | | | | | | | | |
| Polarization | Vertical | | | | | | | | |
| Test By | :Akun Chung | Temperature(°C) | :21 | Humidity(%) | :69 | | | | |
|  | | | | | | | | | |
| | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | | cm | deg |
| 1 | 30.55 | 36.11 | 40.00 | -3.89 | 46.70 | -10.59 | Peak | --- | --- |
| 2 | 136.54 | 37.44 | 43.50 | -6.06 | 46.77 | -9.33 | Peak | --- | --- |
| 3 | 182.46 | 39.11 | 43.50 | -4.39 | 49.46 | -10.35 | Peak | --- | --- |
| 4 | 211.33 | 38.51 | 43.50 | -4.99 | 50.22 | -11.71 | Peak | --- | --- |
| 5 | 430.52 | 41.59 | 46.00 | -4.41 | 45.95 | -4.36 | Peak | --- | --- |
| 6 | 474.88 | 43.88 | 46.00 | -2.12 | 47.03 | -3.15 | QP | 100 | 6 |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</p> | | | | | | | | | |

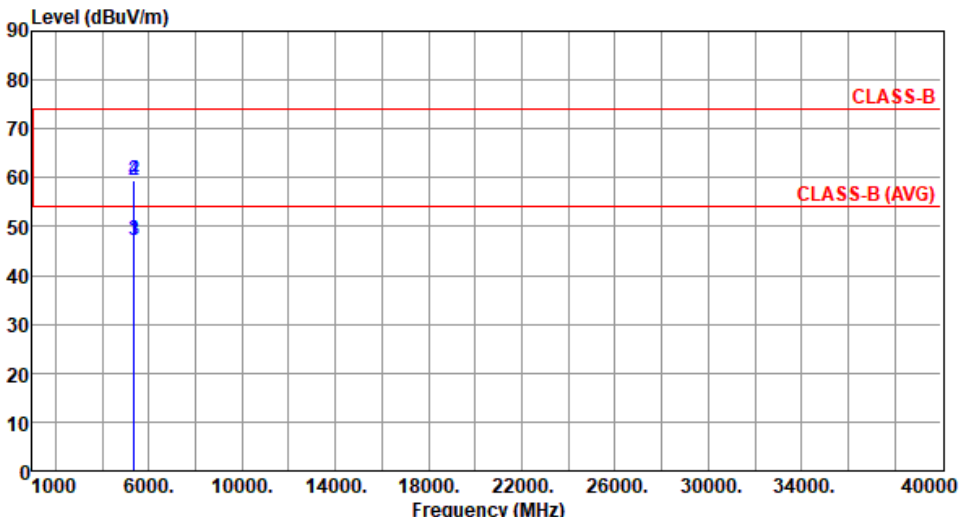
| | | | | | | | | | | |
|--|---------------------------------|----------|---------------------|--------|---------|-----------------|--------|------|-------|--|
| Test Mode | Mode 3: BT EDR 8DPSK CH78 + NFC | | | | | | | | | |
| Polarization | Horizontal | | | | | | | | | |
| Test By : Akun Chung | | | Temperature(°C): 21 | | | Humidity(%): 69 | | | | |
|  | | | | | | | | | | |
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | |
| | MHz | level | dBuV/m | dB | reading | dB/m | | High | Table | |
| | | dBuV/m | | | dBuV | | | cm | deg | |
| 1 | 110.55 | 39.65 | 43.50 | -3.85 | 51.49 | -11.84 | Peak | --- | --- | |
| 2 | 150.11 | 38.02 | 43.50 | -5.48 | 46.74 | -8.72 | Peak | --- | --- | |
| 3 | 199.54 | 41.25 | 43.50 | -2.25 | 53.06 | -11.81 | QP | 125 | 227 | |
| 4 | 335.66 | 42.69 | 46.00 | -3.31 | 49.76 | -7.07 | Peak | --- | --- | |
| 5 | 474.35 | 44.77 | 46.00 | -1.23 | 47.93 | -3.16 | QP | 176 | 63 | |
| 6 | 493.54 | 43.23 | 46.00 | -2.77 | 46.06 | -2.83 | QP | 184 | 225 | |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</p> | | | | | | | | | | |

| | | | | | | | | | | |
|--|---------------------------------|----------|---------------------|--------|---------|-----------------|--------|------|-------|--|
| Test Mode | Mode 3: BT EDR 8DPSK CH78 + NFC | | | | | | | | | |
| Polarization | Vertical | | | | | | | | | |
| Test By : Akun Chung | | | Temperature(°C): 21 | | | Humidity(%): 69 | | | | |
|  | | | | | | | | | | |
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | |
| | MHz | level | dBuV/m | dB | reading | dB/m | | High | Table | |
| | | dBuV/m | | | dBuV | | | cm | deg | |
| 1 | 30.22 | 34.95 | 40.00 | -5.05 | 45.47 | -10.52 | Peak | --- | --- | |
| 2 | 134.88 | 37.54 | 43.50 | -5.96 | 46.93 | -9.39 | Peak | --- | --- | |
| 3 | 182.69 | 38.42 | 43.50 | -5.08 | 48.79 | -10.37 | Peak | --- | --- | |
| 4 | 210.25 | 37.85 | 43.50 | -5.65 | 49.55 | -11.70 | Peak | --- | --- | |
| 5 | 429.55 | 40.75 | 46.00 | -5.25 | 45.16 | -4.41 | Peak | --- | --- | |
| 6 | 474.34 | 43.70 | 46.00 | -2.30 | 46.86 | -3.16 | QP | 100 | 4 | |
| <p>Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</p> | | | | | | | | | | |

3.1.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

| | | | | | | | | | | |
|---|----------------------------------|----------|---------------------|--------|---------|-----------------|---------|------|-------|--|
| Test Mode | Mode 1: 2.4G 11n HT20 CH06 + NFC | | | | | | | | | |
| Polarization | Horizontal | | | | | | | | | |
| Test By : Akun Chung | | | Temperature(°C): 21 | | | Humidity(%): 69 | | | | |
|  | | | | | | | | | | |
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | |
| | MHz | level | dBuV/m | dB | reading | dB/m | | High | Table | |
| | | dBuV/m | dBuV/m | | dBuV | | | cm | deg | |
| 1 | 2382.76 | 41.35 | 54.00 | -12.65 | 42.85 | -1.50 | Average | 100 | 101 | |
| 2 | 2382.76 | 52.09 | 74.00 | -21.91 | 53.59 | -1.50 | Peak | 100 | 101 | |
| 3 | 2391.24 | 41.45 | 54.00 | -12.55 | 42.94 | -1.49 | Average | 100 | 55 | |
| 4 | 2391.24 | 52.45 | 74.00 | -21.55 | 53.94 | -1.49 | Peak | 100 | 55 | |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p> | | | | | | | | | | |

| | | | | | | | | | |
|---|----------------------------------|-----------------|--------|-------------|------------|--------|---------|----------|------------|
| Test Mode | Mode 1: 2.4G 11n HT20 CH06 + NFC | | | | | | | | |
| Polarization | Vertical | | | | | | | | |
| Test By | :Akun Chung | Temperature(°C) | :21 | Humidity(%) | :69 | | | | |
| | | | | | | | | | |
| | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | | cm | deg |
| 1 | 2382.76 | 40.06 | 54.00 | -13.94 | 41.56 | -1.50 | Average | 100 | 206 |
| 2 | 2382.76 | 51.66 | 74.00 | -22.34 | 53.16 | -1.50 | Peak | 100 | 206 |
| 3 | 2391.24 | 40.27 | 54.00 | -13.73 | 41.76 | -1.49 | Average | 100 | 303 |
| 4 | 2391.24 | 50.94 | 74.00 | -23.06 | 52.43 | -1.49 | Peak | 100 | 303 |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p> | | | | | | | | | |

| | | | | | | | | | | |
|---|----------------------------------|----------------|---------------------|--------|------------|-----------------|---------|----------|------------|--|
| Test Mode | Mode 2: 5G 11ac VHT20 CH64 + NFC | | | | | | | | | |
| Polarization | Horizontal | | | | | | | | | |
| Test By : Akun Chung | | | Temperature(°C): 21 | | | Humidity(%): 69 | | | | |
|  | | | | | | | | | | |
| | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | | cm | deg | |
| 1 | 5360.68 | 47.16 | 54.00 | -6.84 | 41.33 | 5.83 | Average | 100 | 111 | |
| 2 | 5360.68 | 59.49 | 74.00 | -14.51 | 53.66 | 5.83 | Peak | 100 | 111 | |
| 3 | 5374.24 | 47.15 | 54.00 | -6.85 | 41.18 | 5.97 | Average | 100 | 105 | |
| 4 | 5374.24 | 59.61 | 74.00 | -14.39 | 53.64 | 5.97 | Peak | 100 | 105 | |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p> | | | | | | | | | | |

| | | | | | | | | | | |
|---|----------------------------------|----------|---------------------|--------|---------|-----------------|---------|------|-------|--|
| Test Mode | Mode 2: 5G 11ac VHT20 CH64 + NFC | | | | | | | | | |
| Polarization | Vertical | | | | | | | | | |
| Test By : Akun Chung | | | Temperature(°C): 21 | | | Humidity(%): 69 | | | | |
| | | | | | | | | | | |
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | |
| | MHz | level | dBuV/m | dB | reading | dB/m | | High | Table | |
| | | dBuV/m | | | dBuV | | | cm | deg | |
| 1 | 5360.68 | 46.28 | 54.00 | -7.72 | 40.45 | 5.83 | Average | 100 | 255 | |
| 2 | 5360.68 | 58.27 | 74.00 | -15.73 | 52.44 | 5.83 | Peak | 100 | 255 | |
| 3 | 5374.24 | 46.36 | 54.00 | -7.64 | 40.39 | 5.97 | Average | 100 | 261 | |
| 4 | 5374.24 | 58.48 | 74.00 | -15.52 | 52.51 | 5.97 | Peak | 100 | 261 | |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p> | | | | | | | | | | |

| | | | | | | | | | | |
|---|---------------------------------|----------------|---------------------|--------|------------|-----------------|---------|----------|------------|--|
| Test Mode | Mode 3: BT EDR 8DPSK CH78 + NFC | | | | | | | | | |
| Polarization | Horizontal | | | | | | | | | |
| Test By : Akun Chung | | | Temperature(°C): 21 | | | Humidity(%): 69 | | | | |
| | | | | | | | | | | |
| | Freq. | Emission level | Limit | Margin | SA reading | Factor | Remark | ANT High | Turn Table | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | | cm | deg | |
| 1 | 2388.44 | 41.09 | 54.00 | -12.91 | 42.58 | -1.49 | Average | 100 | 115 | |
| 2 | 2388.44 | 52.14 | 74.00 | -21.86 | 53.63 | -1.49 | Peak | 100 | 115 | |
| 3 | 2493.56 | 40.75 | 54.00 | -13.25 | 42.32 | -1.57 | Average | 100 | 91 | |
| 4 | 2493.56 | 51.87 | 74.00 | -22.13 | 53.44 | -1.57 | Peak | 100 | 91 | |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p> | | | | | | | | | | |

| | | | | | | | | | | |
|---|---------------------------------|----------|--------------------|--------|---------|----------------|---------|------|-------|--|
| Test Mode | Mode 3: BT EDR 8DPSK CH78 + NFC | | | | | | | | | |
| Polarization | Vertical | | | | | | | | | |
| Test By :Akun Chung | | | Temperature(°C):21 | | | Humidity(%):69 | | | | |
| | | | | | | | | | | |
| | Freq. | Emission | Limit | Margin | SA | Factor | Remark | ANT | Turn | |
| | MHz | level | dBuV/m | dB | reading | dB/m | | High | Table | |
| | | dBuV/m | | | dBuV | | | cm | deg | |
| 1 | 2388.44 | 39.83 | 54.00 | -14.17 | 41.32 | -1.49 | Average | 100 | 204 | |
| 2 | 2388.44 | 50.98 | 74.00 | -23.02 | 52.47 | -1.49 | Peak | 100 | 204 | |
| 3 | 2493.56 | 39.61 | 54.00 | -14.39 | 41.18 | -1.57 | Average | 100 | 226 | |
| 4 | 2493.56 | 50.80 | 74.00 | -23.20 | 52.37 | -1.57 | Peak | 100 | 226 | |
| <p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p> | | | | | | | | | | |

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

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City 33381, Taiwan (R.O.C.)

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