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Report Template Version: V04 Report Template Revision Date: 2018-07-06

# Test Report

Report No.: CQASZ20240100232E-04 **Applicant:** Topdon Technology Co., Ltd

Unit 2005 20/F, Qianhai Shimao Tower, Qianhai Shenzhen-Hong kong Cooperation **Address of Applicant:** 

Zone, Shenzhen, China, 518052

**Equipment Under Test (EUT):** 

**Product:** THINKTOOL PROS+, Smart Automotive Diagnostic System

Model No.: Phoenix Lite 3, Phoenix Lite 2, TKT04

Teat Model No.: TKT04

**TOPDON Brand Name:** 

FCC ID: 2AVYW-PHLITE2

Standards: 47 CFR Part 15, Subpart E

KDB 789033 D02 General UNII Test Procedures New Rules v02

KDB 558074 D01 Meas Guidance v05

Date of Receipt: 2024-01-26

**Date of Test:** 2024-01-26 to 2024-03-06

Date of Issue: 2024-03-06 PASS\* **Test Result:** 

\*In the configuration tested, the EUT complied with the standards specified above

Tested By: [cwis 2hou] Reviewed By: \_ (Timo Lei)





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## 1 Version

### **Revision History Of Report**

| Report No.           | Version | Description    | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20240100232E-04 | Rev.01  | Initial report | 2024-03-07 |

#### Note:

This test report (Ref. No.: CQASZ20240100232E-04)

All test data comes from source test reports (Ref. No.: CQASZ20220500919E-04).

The difference is that Model No., Power supply panel .The key differences are the appearance and the model number. These changes do not affect RF performance.



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## 2 Test Summary

| Test Item                                                         | Test Requirement                                                        | Test method                | Result |
|-------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------|--------|
| Antenna Requirement                                               | 47 CFR Part 15 Subpart C<br>Section 15.203                              | ANSI C63.10-2013           | PASS   |
| AC Power Line Conducted<br>Emission                               | 47 CFR Part 15 Subpart E<br>Section 15.407 (b)(6)                       | ANSI C63.10-2013           | N/A    |
| Conducted Output Power and transmit power control mechanism       | 47 CFR Part 15 Subpart E<br>Section 15.407 (a)(1)(2)(4)(h)(1)           | ANSI C63.10-2013 N/A       |        |
| Emission Bandwidth                                                | 47 CFR Part 15 Subpart E<br>Section 15.407 (a)(1)(2)                    | ANSI C63.10-2013           | N/A    |
| Peak Power Spectral Density                                       | 47 CFR Part 15 Subpart E<br>Section 15.407 (a)(1)(2)(5)                 | ANSI C63.10-2013 N/        |        |
| Frequency stability                                               | 47 CFR Part 15 Subpart E<br>Section 15.407 (g)                          | ANSI C63.10-2013 N/A       |        |
| Operation in the absence of information to the transmit           | 47 CFR Part 15 Subpart E<br>Section 15.407 (c)                          | 47 CFR Part 15 Subpart E N |        |
| Radiated Spurious Emissions                                       | 47 CFR Part 15 Subpart E<br>Section 15.407 (b)(1)(2)(3)(5)<br>(6)(7)(8) | ANSI C63.10-2013 PASS      |        |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15 Subpart E<br>Section 15.407 (b)(6)(7)(8)                 | ANSI C63.10-2013 N/A       |        |

#### Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.Rx: In this whole report Rx (or rx) means Receiver.RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application



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## 3 Content

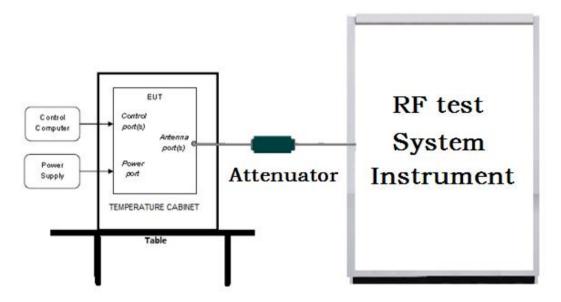
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## 4 Test Requirement

## 4.1 Test setup

## 4.1.1 For Conducted test setup



### 4.1.2 For Radiated Emissions test setup

### Radiated Emissions setup:

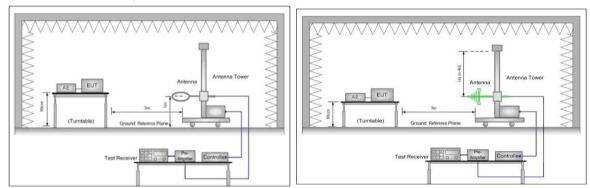


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

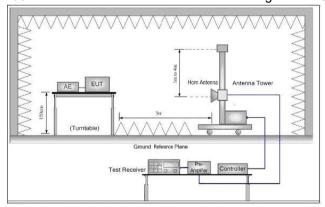
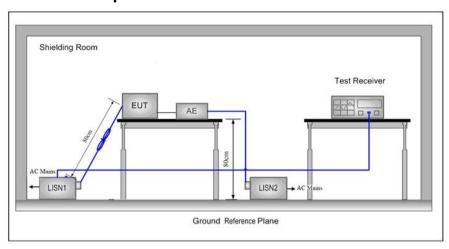


Figure 3. Above 1GHz



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# 4.1.3 For Conducted Emissions test setup Conducted Emissions setup



### 4.2 Test Environment

| Operating Environment  | :                             |             |
|------------------------|-------------------------------|-------------|
| Conducted Emissions:   |                               |             |
| Temperature:           | 25.6 °C                       |             |
| Humidity:              | 60 % RH                       |             |
| Atmospheric Pressure:  | 1009 mbar                     |             |
| Radiated Emissions:    |                               |             |
| Temperature:           | 25.5 °C                       |             |
| Humidity:              | 54 % RH                       |             |
| Atmospheric Pressure:  | 1009mbar                      |             |
| Radio conducted item t | est (RF Conducted test room): |             |
| Temperature:           | 25.3 °C                       |             |
| Humidity:              | 50 % RH                       |             |
| Atmospheric Pressure:  | 1009 mbar                     |             |
| Test Condition         | Temperature (°C)              | Voltage (V) |
| TN/VN                  | +15 to +35                    | 7.6         |
| TL/VL                  | 0                             | 6.84        |
| TH/VL                  | 50                            | 6.84        |
| TL/VH                  | 0                             | 8.36        |
| TH/VH                  | 50                            | 8.36        |

#### Remark:

- 1)The EUT just work in such extreme temperature of 0 °C to 50 °C and the extreme voltage of 6.84V to
- 8.36V, so here the EUT is tested in the temperature of 0 °C to 50 °C and the voltage of 6.84V to 8.36V.
- 2)VN: Normal Voltage; TN: Normal Temperature;
- TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
- VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.



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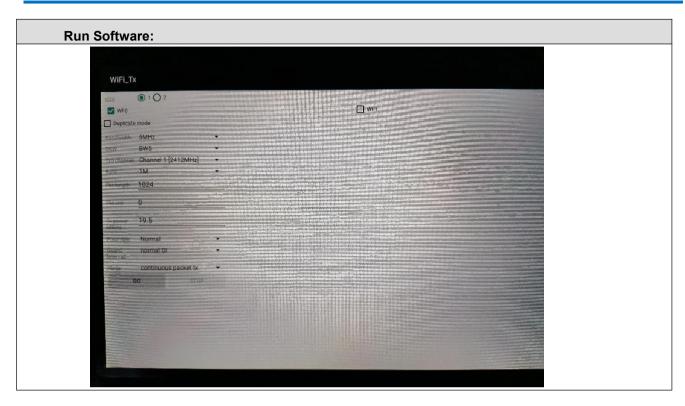
## 4.3 Test Condition

### Test channel:

| Test Mode                           | Tx/Rx                      | RF Channel  |             |             |  |
|-------------------------------------|----------------------------|-------------|-------------|-------------|--|
| rest Mode                           | IX/NX                      | Low(L)      | Middle(M)   | High(H)     |  |
| 902 44a/n/aa/20M)                   | 5150MHz ~5250 MHz          | Channel 36  | Channel 40  | Channel 48  |  |
| 802.11a/n/ac(20M)                   | 31301VITZ ~3230 IVITZ      | 5180MHz     | 5200MHz     | 5240MHz     |  |
| 902 11n/oo/40M)                     | 5150MU 5250 MU-            | Channel 38  | N/A         | Channel 46  |  |
| 802.11n/ac(40M)                     | 5150MHz ~5250 MHz          | 5190MHz     | N/A         | 5230MHz     |  |
| 802.11ac(80M)                       | 5150MHz ~5250 MHz          | N/A         | Channel 42  | N/A         |  |
|                                     |                            | N/A         | 5210MHz     | N/A         |  |
| 902 110/p/00/20M)                   | 5725MHz ~5850 MHz          | Channel 149 | Channel 157 | Channel 165 |  |
| 802.11a/n/ac(20M) 5725MHz ~5850 MHz |                            | 5745MHz     | 5785MHz     | 5825MHz     |  |
| 902 11n/oo/40M)                     | 6706MU 6060 MU-            | Channel 151 | N/A         | Channel 159 |  |
| 802.11n/ac(40M)                     | 5725MHz ~5850 MHz          | 5755MHz     | N/A         | 5795MHz     |  |
| 902 11aa(90M)                       | 5725MHz ~5850 MHz          | N/A         | Channel 155 | N/A         |  |
| 802.11ac(80M)                       | 31 231VIII 2 ~3030 IVIII 2 | N/A         | 5775MHz     | N/A         |  |



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#### Test mode:

#### Pre-scan under all rate at lowest channel for Ant1

Through Pre-scan, 6Mbps is the worst case of 802.11a (20M); MCS0 is the worst case of 802.11n (20M); MCS0 is the worst case of 802.11ac (20M); MCS0 is the worst case of 802.11ac (40M); MCS0 is the worst case of 802.11ac (80M).



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## 5 General Information

## **5.1 Client Information**

| Applicant:               | Topdon Technology Co,.Ltd                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------|
| Address of Applicant:    | Unit 2005 20/F, Qianhai Shimao Tower, Qianhai Shenzhen-Hong kong<br>Cooperation Zone, Shenzhen, China, 518052 |
| Manufacturer:            | Topdon Technology Co,.Ltd                                                                                     |
| Address of Manufacturer: | Unit 2005 20/F, Qianhai Shimao Tower, Qianhai Shenzhen-Hong kong<br>Cooperation Zone, Shenzhen, China, 518052 |
| Factory:                 | THINKCAR TECH CO., LTD. BanTian Branch                                                                        |
| Address of Factory:      | 2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen              |

## 5.2 General Description of EUT

| Product Name:                    | THINKTOOL PROS+, Smart Automotive Diagnostic System                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No.:                       | Phoenix Lite 3, Phoenix Lite 2, TKT04                                                                                                                                                    |
| Test Model No.:                  | TKT04                                                                                                                                                                                    |
| Trade Mark:                      | TOPDON                                                                                                                                                                                   |
| Hardware Version:                | BSK-Y8-V3                                                                                                                                                                                |
| Software Version:                | Y8_tool_proplus_20201023_1413_V1.8                                                                                                                                                       |
| Test sample SN:                  | 850022568053                                                                                                                                                                             |
| EUT Power Supply:                | lithium battery:DC7.6V, 6300mAh, Charge by DC5V<br>Adapter:<br>MODEL: PSYB0502500<br>INPUT: 100-240V~50/60Hz 0.6A Max<br>OUTPUT: 5V 2.5A, 12.5W                                          |
| EUT Supports Radios application: | Bluetooth Dual mode: 2402-2480MHz<br>2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz;<br>802.11n(HT40): 2422MHz~2452MHz<br>5GHz: Wi-Fi: U-NII-1: 5.15-5.25GHz; U-NII-3: 5.725-5.850GHz |

## 5.3 Product Specification subjective to this standard

| IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz<br>IEEE802.11n/ac(40M): 5150MHz ~5250 MHz<br>IEEE802.11ac(80M): 5150MHz ~5250 MHz<br>IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz<br>IEEE802.11n/ac(40M): 5725MHz ~5850 MHz<br>IEEE802.11ac(80M): 5725MHz ~5850 MHz                                                                 |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel<br>IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel<br>IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel<br>IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel<br>IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel<br>IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel |  |  |
| OFDM                                                                                                                                                                                                                                                                                                                       |  |  |
| ☐ Mobile ☐ Portable ☐ Fix Location                                                                                                                                                                                                                                                                                         |  |  |
| N/A                                                                                                                                                                                                                                                                                                                        |  |  |
| RF Test (manufacturer declare)                                                                                                                                                                                                                                                                                             |  |  |
| internal antenna with ipex connector                                                                                                                                                                                                                                                                                       |  |  |
|                                                                                                                                                                                                                                                                                                                            |  |  |



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| Antenna gain: | 3.68dBi@5GHz: Wi-Fi: U-NII-1, 5.46dBi@5GHz: Wi-Fi: U-NII-3 |  |
|---------------|------------------------------------------------------------|--|
|---------------|------------------------------------------------------------|--|

Operation Frequency each of channel

| operation in requestion each                                   | peration requestly each or charmer |                      |           |  |  |
|----------------------------------------------------------------|------------------------------------|----------------------|-----------|--|--|
| For 802.11a/n/ac( 20M) Operation in the 5150MHz ~5250 MHz band |                                    |                      |           |  |  |
| Channel                                                        | Frequency                          | Channel              | Frequency |  |  |
| 36                                                             | 5180MHz                            | 44                   | 5220MHz   |  |  |
| 40                                                             | 5200MHz                            | 48                   | 5240MHz   |  |  |
| For 802.                                                       | 11a/n/ac( 20M) Operation           | in the 5725MHz ~5850 | MHz band  |  |  |
| Channel                                                        | Frequency                          | Channel              | Frequency |  |  |
| 149                                                            | 5745MHz                            | 161                  | 5805MHz   |  |  |
| 153                                                            | 5765MHz                            | 165                  | 5825MHz   |  |  |
| 157                                                            | 5785MHz                            | NA                   | NA        |  |  |

| For 802.11n/ac( | 40M) Operation in the 5150MHz ~5250 MHz band |         |           |
|-----------------|----------------------------------------------|---------|-----------|
| Channel         | Frequency                                    | Channel | Frequency |
| 38              | 5190MHz                                      | 46      | 5230MHz   |
| For 802.11n/ac( | 10 0000000                                   |         |           |
| Channel         | Frequency                                    | Channel | Frequency |
| 151             | 5755MHz                                      | 159     | 5795MHz   |

| For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band |           |    |    |
|-----------------------------------------------------------|-----------|----|----|
| Channel                                                   | Frequency | NA | NA |
| 42                                                        | 5210MHz   | NA | NA |
| For 802.11ac(80M) Operation in the 5725MHz ~5850 MHz band |           |    |    |
| Channel                                                   | Frequency | NA | NA |
| 155                                                       | 5775MHz   | NA | NA |

## 5.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No.      | Certification | Supplied by |
|-------------|--------------|----------------|---------------|-------------|
| PC          | Lenovo       | ThinkPad E450c | FCC ID        | CQA         |



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### 5.5 Test Location

All tests were performed at:

#### Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

### 5.6 Test Facility

#### • A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

#### • FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

#### 5.7 Deviation from Standards

None.

#### 5.8 Abnormalities from Standard Conditions

None.

### 5.9 Other Information Requested by the Customer

None.

### 5.10 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | 3 x 10 <sup>-8</sup>    |
| 2   | RF power, conducted             | 0.86dB                  |
| 3   | Padiated Spurious emission test | 5.12dB (Below 1GHz)     |
| 3   | Radiated Spurious emission test | 4.6dB (Above 1GHz)      |
| 4   | Conduction emission             | 3.5dB (9kHz to 150kHz)  |
| 4   | Conduction emission             | 3.1dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.8°C                   |
| 6   | Humidity test                   | 2.0%                    |
| 7   | DC power voltages               | 0.5%                    |



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# 6 Equipment List

| Test Equipment                                  | Manufacturer | Model No.                  | Instrument<br>No. | Calibration<br>Date | Calibration<br>Due Date |
|-------------------------------------------------|--------------|----------------------------|-------------------|---------------------|-------------------------|
| EMI Test Receiver                               | R&S          | ESR7                       | CQA-005           | 2023/09/08          | 2024/09/07              |
| Spectrum analyzer                               | R&S          | FSU26                      | CQA-038           | 2023/09/08          | 2024/09/07              |
| Spectrum analyzer                               | R&S          | FSU40                      | CQA-075           | 2023/09/08          | 2024/09/07              |
| Preamplifier                                    | MITEQ        | AFS4-00010300-18-<br>10P-4 | CQA-035           | 2023/09/08          | 2024/09/07              |
| Preamplifier                                    | MITEQ        | AMF-6D-02001800-<br>29-20P | CQA-036           | 2023/09/08          | 2024/09/07              |
| Preamplifier                                    | EMCI         | EMC184055SE                | CQA-089           | 2023/09/08          | 2024/09/07              |
| Loop antenna                                    | Schwarzbeck  | FMZB1516                   | CQA-060           | 2021/09/16          | 2024/09/15              |
| Bilog Antenna                                   | R&S          | HL562                      | CQA-011           | 2021/09/16          | 2024/09/15              |
| Horn Antenna                                    | R&S          | HF906                      | CQA-012           | 2021/09/16          | 2024/09/15              |
| Horn Antenna                                    | Schwarzbeck  | BBHA 9170                  | CQA-088           | 2021/09/16          | 2024/09/15              |
| Coaxial Cable<br>(Above 1GHz)                   | CQA          | N/A                        | C007              | 2023/09/08          | 2024/09/07              |
| Coaxial Cable<br>(Below 1GHz)                   | CQA          | N/A                        | C013              | 2023/09/08          | 2024/09/07              |
| RF<br>cable(9KHz~40GHz)                         | CQA          | RF-01                      | CQA-079           | 2023/09/08          | 2024/09/07              |
| Antenna Connector                               | CQA          | RFC-01                     | CQA-080           | 2023/09/08          | 2024/09/07              |
| Power Sensor                                    | KEYSIGHT     | U2021XA                    | CQA-30            | 2023/09/08          | 2024/09/07              |
| N1918A Power<br>Analysis Manager<br>Power Panel | Agilent      | N1918A                     | CQA-074           | 2023/09/08          | 2024/09/07              |
| Power meter                                     | R&S          | NRVD                       | CQA-029           | 2023/09/08          | 2024/09/07              |
| Power divider                                   | MIDWEST      | PWD-2533-02-SMA-<br>79     | CQA-067           | 2023/09/08          | 2024/09/07              |
| EMI Test Receiver                               | R&S          | ESR7                       | CQA-005           | 2023/09/08          | 2024/09/07              |
| LISN                                            | R&S          | ENV216                     | CQA-003           | 2023/09/08          | 2024/09/07              |
| Coaxial cable                                   | CQA          | N/A                        | CQA-C009          | 2023/09/08          | 2024/09/07              |
| DC power                                        | KEYSIGHT     | E3631A                     | CQA-028           | 2023/09/08          | 2024/09/07              |

### Test software:

|                                   | Manufacturer | Software brand |
|-----------------------------------|--------------|----------------|
| Radiated Emissions test software  | Tonscend     | JS1120-3       |
| Conducted Emissions test software | Audix        | e3             |
| RF Conducted test software        | Audix        | e3             |



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# 7 Radio Technical Requirements Specification

Reference documents for testing:

| .0.0.0 | moo accamicing for toothing.                                        |                                                                                                                       |
|--------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| No.    | Identity                                                            | Document Title                                                                                                        |
| 1      | FCC Part15E                                                         | Subpart C-Intentional Radiators                                                                                       |
| 2      | ANSI C63.10-2013                                                    | American National Standard for Testing Unlicesed Wireless Devices                                                     |
| 3      | KDB 789033 D02 General U-NII<br>Test Procedures New Rules<br>v02r01 | Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E |
| 4      | KDB 662911 D01 Multiple<br>Transmitter Output v02r01                | Emissions Testing of Transmitters with Multiple Outputs in the Same Band                                              |



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### Appendix F): Antenna Requirement

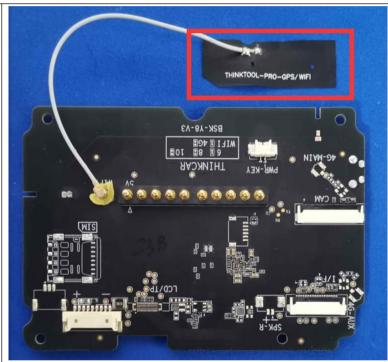
### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **EUT Antenna:**



The antenna is internal antenna with ipex connector. The best case gain of the 5G WiFi antenna is 3.68dBi@Band 1, 5.46dBi@Band 4.



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## Appendix G): Operation in the absence of information to the transmit

### 15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

#### Operation in the absence of information to the transmit

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare )



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## **Appendix H): AC Power Line Conducted Emission**

| 7 10 10 0 11 0 11 7 1 1 1 1 1 1 1 1 1 1 | JI OWCI EIIIC OOIIGC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                                                           |                                                                                                                                                                             |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:                         | Test frequency range :150KHz 1)The mains terminal disturba 2) The EUT was connected to Stabilization Network) which power cables of all other under which was bonded to the grown the unit being measure multiple power cables to a exceeded.  3)The tabletop EUT was place reference plane. And for fix horizontal ground reference. 4) The test was performed wield EUT shall be 0.4 m from the reference plane was bonded 1 was placed 0.8 m from ground reference plane for plane. This distance was be All other units of the EUT at LISN 2.  5) In order to find the maximulal of the interface cable conducted measurement. | nce voltage test was con AC power source through provides a 50Ω/50μ units of the EUT were ground reference plane ed. A multiple socket of single LISN provided the dupon a non-metallic por-standing arrangement are plane, with a vertical ground reference to the horizontal ground associated equipment are emission, the relative provides and associated equipment in the provides and the | rough a LISN 1 (Line In | Impedance dance. The nd LISN 2, the LISN 1 to connect was not the ground ced on the rear of the ical ground. The LISN onded to a reference d the EUT. Im from the pment and |
| Limit:                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Limit (d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BuV)                                                        |                                                                                                                                                                             |
|                                         | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Average                                                     |                                                                                                                                                                             |
|                                         | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 56 to 46*                                                   |                                                                                                                                                                             |
|                                         | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 46                                                          |                                                                                                                                                                             |
|                                         | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50                                                          |                                                                                                                                                                             |
|                                         | * The limit decreases linearly<br>MHz to 0.50 MHz.<br>NOTE : The lower limit is appl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                             | range 0.15                                                                                                                                                                  |

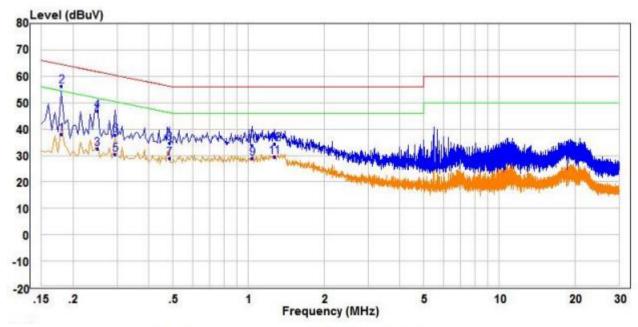
#### **Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



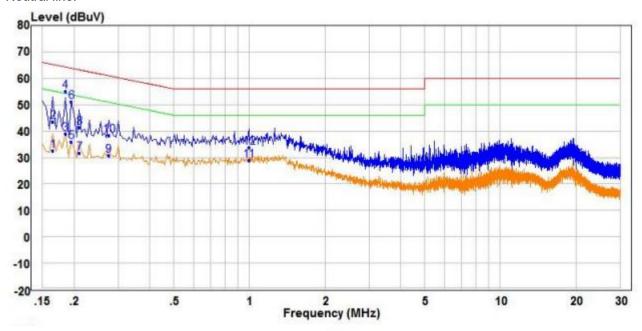
### Live line:



|    |    | Freq  | Read<br>Level | Factor | Level | Limit<br>Line | Over   | Remark  | Pol/Phase |
|----|----|-------|---------------|--------|-------|---------------|--------|---------|-----------|
|    | -  | MHz   | dBuV          | dB     | dBuV  | dBuV          | dB     |         |           |
| 1  | AV | 0.180 | 28.66         | 9.49   | 38.15 | 54.49         | -16.34 | Average | Line      |
| 2  | PP | 0.180 | 46.90         | 9.49   | 56.39 | 64.49         | -8.10  | QP      | Line      |
| 3  |    | 0.250 | 23.08         | 9.49   | 32.57 | 51.76         | -19.19 | Average | Line      |
| 4  |    | 0.250 | 37.35         | 9.49   | 46.84 | 61.76         | -14.92 | QP      | Line      |
| 5  |    | 0.295 | 20.96         | 9.49   | 30.45 | 50.38         | -19.93 | Average | Line      |
|    |    | 0.295 | 28.17         | 9.49   | 37.66 | 60.38         | -22.72 | QP      | Line      |
| 7  |    | 0.485 | 19.41         | 9.52   | 28.93 | 46.25         | -17.32 | Average | Line      |
| 8  |    | 0.485 | 25.10         | 9.52   | 34.62 | 56.25         | -21.63 | QP      | Line      |
| 9  |    | 1.035 | 19.33         | 9.53   | 28.86 | 46.00         | -17.14 | Average | Line      |
| 10 |    | 1.035 | 24.37         | 9.53   | 33.90 | 56.00         | -22.10 | QP      | Line      |
| 11 |    | 1.270 | 19.93         | 9.52   | 29.45 | 46.00         | -16.55 | Average | Line      |
| 12 |    | 1.270 | 24.83         | 9.52   | 34.35 | 56.00         | -21.65 | QP      | Line      |



#### Neutral line:



|    |    | Freq  | Read<br>Level | Factor | Level | Limit<br>Line | Over<br>Limit | Remark  | Pol/Phase |
|----|----|-------|---------------|--------|-------|---------------|---------------|---------|-----------|
|    | _  | MHz   | dBuV          | dB     | dBuV  | dBuV          | dB            |         |           |
| 1  |    | 0.165 | 23.03         | 9.67   | 32.70 | 55.21         | -22.51        | Average | Neutral   |
| 2  |    | 0.165 | 33.78         | 9.67   | 43.45 | 65.21         | -21.76        | QP      | Neutral   |
| 3  | AV | 0.185 | 29.38         | 9.63   | 39.01 | 54.26         | -15.25        | Average | Neutral   |
| 4  | PP | 0.185 | 45.37         | 9.63   | 55.00 | 64.26         | -9.26         | QP      | Neutral   |
| 5  |    | 0.195 | 26.22         | 9.62   | 35.84 | 53.82         | -17.98        | Average | Neutral   |
| 6  |    | 0.195 | 41.64         | 9.62   | 51.26 | 63.82         | -12.56        | QP      | Neutral   |
| 7  |    | 0.210 | 22.22         | 9.59   | 31.81 | 53.21         | -21.40        | Average | Neutral   |
| 8  |    | 0.210 | 31.93         | 9.59   | 41.52 | 63.21         | -21.69        | QP      | Neutral   |
| 9  |    | 0.275 | 21.37         | 9.51   | 30.88 | 50.97         | -20.09        | Average | Neutral   |
| 10 |    | 0.275 | 28.78         | 9.51   | 38.29 | 60.97         | -22.68        | QP      | Neutral   |
| 11 |    | 0.995 | 19.14         | 9.70   | 28.84 | 46.00         | -17.16        | Average | Neutral   |
| 12 |    | 0.995 | 24.20         | 9.70   | 33.90 | 56.00         | -22.10        | QP      | Neutral   |

#### Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. The 6Mbps of rate of 802.11A\_5240 is the worst case, only the worst data recorded in the report.



Report No.: CQASZ20240100232E-04

## **Appendix J): Radiated Spurious Emissions**

#### **Receiver Setup:**

| Frequency         | Detector   | RBW    | VBW    | Remark     |
|-------------------|------------|--------|--------|------------|
| 0.009MHz-0.090MHz | Peak       | 10kHz  | 30kHz  | Peak       |
| 0.009MHz-0.090MHz | Average    | 10kHz  | 30kHz  | Average    |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz  | 30kHz  | Quasi-peak |
| 0.110MHz-0.490MHz | Peak       | 10kHz  | 30kHz  | Peak       |
| 0.110MHz-0.490MHz | Average    | 10kHz  | 30kHz  | Average    |
| 0.490MHz -30MHz   | Quasi-peak | 10kHz  | 30kHz  | Quasi-peak |
| 30MHz-1GHz        | Quasi-peak | 120kHz | 300kHz | Quasi-peak |
| Above 10Uz        | Peak       | 1MHz   | 3MHz   | Peak       |
| Above 1GHz        | Peak       | 1MHz   | 10Hz   | Average    |

#### **Test Procedure:**

#### Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre)
- h. Test the EUT in the lowest channel .the middle channel .the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

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| Frequency         | Field strength (microvolt/meter) | Limit<br>(dBµV/cm) | Remark     | Measurement distance (cm) |
|-------------------|----------------------------------|--------------------|------------|---------------------------|
| 0.009MHz-0.490MHz | 2400/F(kHz)                      | -                  | -          | 300                       |
| 0.490MHz-1.705MHz | 24000/F(kHz)                     | -                  | -          | 30                        |
| 1.705MHz-30MHz    | 30                               | -                  | -          | 30                        |
| 30MHz-88MHz       | 100                              | 40.0               | Quasi-peak | 3                         |
| 88MHz-216MHz      | 150                              | 43.5               | Quasi-peak | 3                         |
| 216MHz-960MHz     | 200                              | 46.0               | Quasi-peak | 3                         |
| 960MHz-1GHz       | 500                              | 54.0               | Quasi-peak | 3                         |
| Above 1GHz        | 500                              | 54.0               | Average    | 3                         |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test result: PASS



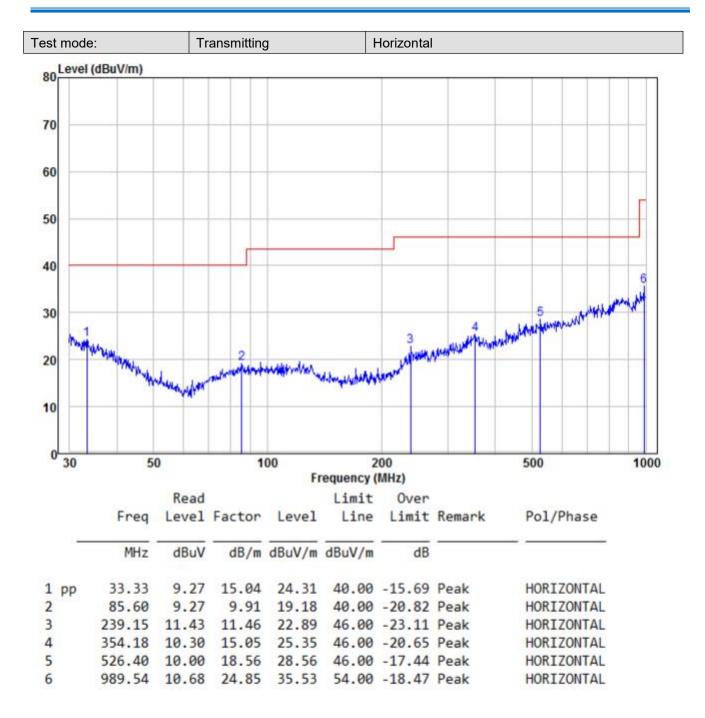


Test Data: Radiated Emission below 1GHz

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                               | 5<br>Freq<br>MHz<br>30.75<br>47.83<br>98.49 | 0 Read Level dBuV 16.03 13.74 9.81 10.77             | Factor  dB/m  15.71 9.11 10.56 14.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Level  dBuV/m  31.74 22.85 20.37 25.47 | Limit<br>Line<br>dBuV/m<br>40.00<br>40.00<br>43.50 | 200<br>(MHz)<br>Over<br>Limit<br>dB<br>-8.26<br>-17.15<br>-23.13<br>-20.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Remark Peak Peak Peak Peak            | PO1/Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1000 se    |



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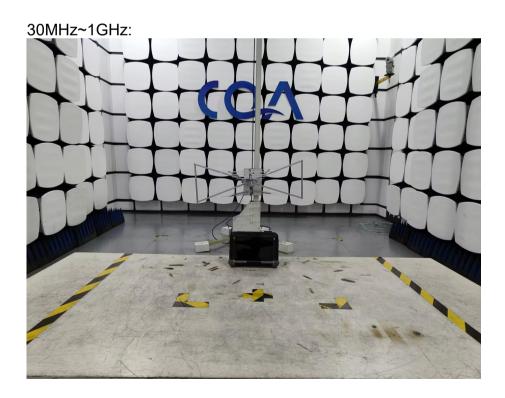


# 8 Photographs - EUT Test Setup

## 8.1 Radiated Spurious Emission

9kHz~30MHz:









## 8.2 Conducted Emission





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# 9 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20240100232E-01.

\*\*\* End of Report \*\*\*