

# FCC Test Report

**Report No.** : 1821C50002612503

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**Applicant** : Launch Tech Co., Ltd.

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**Address** : No.4012, Launch Industrial Park, North Wuhe  
Rd, Bantian Street, Longgang District 518129,  
China

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**Product Name** : Professional Diagnostic Tool

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**Report Date** : Mar. 17, 2025

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**Shenzhen Anbotek Compliance Laboratory Limited**

**Shenzhen Anbotek Compliance Laboratory Limited**

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## TEST REPORT

Applicant : Launch Tech Co., Ltd.  
Manufacturer : Launch Tech Co., Ltd.  
Product Name : Professional Diagnostic Tool  
Model No. : Creader Professional 919E, Millennium Max, Creader Professional 919x, Creader Professional 919x PLUS ("x"=A~Z), Creader Professional 359, 59582  
Trade Mark : LAUNCH  
Rating(s) : Input: AC 100-240V, 50/60Hz(with DC 3.7V, 6000mAh Battery inside)

**Test Standard(s)** : **47 CFR Part 15.247**  
**ANSI C63.10-2020**  
**KDB 558074 D01 15.247 Meas Guidance v05r02**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Mar. 06, 2025

Date of Test: Mar. 06, 2025 to Mar. 13, 2025

Prepared By:

*Haidi Huang*

(Haidi Huang)

Approved & Authorized Signer:

*Hugo Chen*

(Hugo Chen)

### Revision History

| Report Version | Description             | Issued Date   |
|----------------|-------------------------|---------------|
| R00            | Original Issue.(Note 1) | Mar. 17, 2025 |
|                |                         |               |
|                |                         |               |

**Note 1:**

This is a Class II application which was based on the original report 18220WC20090303. FCC ID: XUJCRP349PLUS, issued on May 26, 2022. The difference between the original device and current one described as following:

1. The motherboard and PCB layout remain unchanged, but the electronic materials are replaced with substitute materials. The packaging and specifications of the substitute materials are the same as the original main materials.
2. Add the Model No.: 59582.
3. Change the battery capacity to “6000mAh”.
4. Delete factory information.
5. Update the EUT Photograph.
6. Change the company address of Applicant and Manufacturer.

The changes are not related with the other RF parameters, only conducted emission and spurious emission were retested.



## 1. General Information

### 1.1. Client Information

|              |   |                                                                                                 |
|--------------|---|-------------------------------------------------------------------------------------------------|
| Applicant    | : | Launch Tech Co., Ltd.                                                                           |
| Address      | : | No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street, Longgang District 518129, China |
| Manufacturer | : | Launch Tech Co., Ltd.                                                                           |
| Address      | : | No.4012, Launch Industrial Park, North Wuhe Rd, Bantian Street, Longgang District 518129, China |

### 1.2. Description of Device (EUT)

|                                                                                                                                                                                                      |   |                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                                                                                                                                                                                         | : | Professional Diagnostic Tool                                                                                                                                                                                                                                                                                                     |
| Model No.                                                                                                                                                                                            | : | Creader Professional 919E, Millennium Max, Creader Professional 919x, Creader Professional 919x PLUS ("x"=A~Z), Creader Professional 359, 59582<br>(Note: All samples are the same except the model number, Rubber cover, appearance shape, Key decorative ring color. So we prepare "Creader Professional 919E" for test only.) |
| Trade Mark                                                                                                                                                                                           | : | LAUNCH                                                                                                                                                                                                                                                                                                                           |
| Test Power Supply                                                                                                                                                                                    | : | AC 120V, 60Hz for Adapter/DC 3.7V Battery inside                                                                                                                                                                                                                                                                                 |
| Test Sample No.                                                                                                                                                                                      | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample)                                                                                                                                                                                                                                                                                  |
| Adapter                                                                                                                                                                                              | : | Model: FY0502500<br>Input: 100-240V~50/60Hz, 0.6A Max.<br>Output: DC 5V, 2.5A                                                                                                                                                                                                                                                    |
| <b>RF Specification</b>                                                                                                                                                                              |   |                                                                                                                                                                                                                                                                                                                                  |
| Operation Frequency                                                                                                                                                                                  | : | 802.11b/g/n(HT20): 2412MHz to 2462MHz;<br>802.11n(HT40): 2422MHz to 2452MHz                                                                                                                                                                                                                                                      |
| Number of Channel                                                                                                                                                                                    | : | 802.11b/g/n(HT20): 11 Channels;<br>802.11n(HT40): 7 Channels                                                                                                                                                                                                                                                                     |
| Modulation Type                                                                                                                                                                                      | : | 802.11b: DSSS(CCK, DQPSK, DBPSK);<br>802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM);<br>802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)                                                                                                                                                                                         |
| Antenna Type                                                                                                                                                                                         | : | FPC Antenna                                                                                                                                                                                                                                                                                                                      |
| Antenna Gain(Peak)                                                                                                                                                                                   | : | 4.49dBi                                                                                                                                                                                                                                                                                                                          |
| <b>Remark:</b><br>(1) All of the RF specification are provided by customer.<br>(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |   |                                                                                                                                                                                                                                                                                                                                  |

### 1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|-------|--------------|-----------|------------|
| /     | /            | /         | /          |

#### 1.4. Operation channel list

Operation Band:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 2412            | 5       | 2432            | 9       | 2452            |
| 2       | 2417            | 6       | 2437            | 10      | 2457            |
| 3       | 2422            | 7       | 2442            | 11      | 2462            |
| 4       | 2427            | 8       | 2447            | /       | /               |

#### 1.5. Description of Test Modes

| Pretest Modes                                             | Descriptions                                     |
|-----------------------------------------------------------|--------------------------------------------------|
| TM1                                                       | Keep the EUT in 802.11b transmitting mode.       |
| TM2                                                       | Keep the EUT in 802.11g transmitting mode.       |
| TM3                                                       | Keep the EUT in 802.11n(HT20) transmitting mode. |
| TM4                                                       | Keep the EUT in 802.11n(HT40) transmitting mode. |
| Note: 802.11ax mode only support full resource unit size. |                                                  |

#### 1.6. Measurement Uncertainty

| Parameter                                                                                                                                                                                                                       | Uncertainty |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Conducted emissions (AMN 150kHz~30MHz)                                                                                                                                                                                          | 3.2dB       |
| Conducted Output Power                                                                                                                                                                                                          | 0.76dB      |
| Radiated emissions (Below 30MHz)                                                                                                                                                                                                | 3.26dB      |
| The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.<br>This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |             |

## 1.7. Test Summary

| Test Items                                 | Test Modes  | Status |
|--------------------------------------------|-------------|--------|
| Antenna requirement                        | /           | P      |
| Conducted Emission at AC power line        | Mode1,2,3,4 | P      |
| Maximum Conducted Output Power             | Mode1,2,3,4 | P      |
| Emissions in frequency bands (below 1GHz)  | Mode1,2,3,4 | P      |
| Note:<br>P: Pass<br>N: N/A, not applicable |             |        |

## 1.8. Description of Test Facility

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

### FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, 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. 434132.

### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.  
 Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

## 1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

### 1.10. Test Equipment List

| Conducted Emission at AC power line |                                             |                  |           |               |            |              |
|-------------------------------------|---------------------------------------------|------------------|-----------|---------------|------------|--------------|
| Item                                | Equipment                                   | Manufacturer     | Model No. | Serial No.    | Last Cal.  | Cal.Due Date |
| 1                                   | L.I.S.N. Artificial Mains Network           | Rohde & Schwarz  | ENV216    | 100055        | 2024-09-09 | 2025-09-08   |
| 2                                   | Three Phase V-type Artificial Power Network | CYBERTEK         | EM5040DT  | E215040D T001 | 2025-01-13 | 2026-01-12   |
| 3                                   | Software Name EZ-EMC                        | Farad Technology | ANB-03A   | N/A           | /          | /            |
| 4                                   | EMI Test Receiver(CE2#)                     | Rohde & Schwarz  | ESPI3     | 100926        | 2024-09-09 | 2025-09-08   |

| Maximum Conducted Output Power |                                       |              |            |                |            |              |
|--------------------------------|---------------------------------------|--------------|------------|----------------|------------|--------------|
| Item                           | Equipment                             | Manufacturer | Model No.  | Serial No.     | Last Cal.  | Cal.Due Date |
| 1                              | Constant Temperature Humidity Chamber | ZHONGJIAN    | ZJ-KHWS80B | N/A            | 2021-10-22 | 2022-10-21   |
| 2                              | DC Power Supply                       | IVYTECH      | IV3605     | 1804D360 510   | 2021-10-22 | 2022-10-21   |
| 3                              | Power Sensor                          | DAER         | RPR3006W   | 15I00041S N045 | 2021-10-22 | 2022-10-21   |
| 4                              | Power Sensor                          | DAER         | RPR3006W   | 15I00041S N046 | 2021-10-22 | 2022-10-21   |
| 5                              | MXA Spectrum Analysis                 | KEYSIGHT     | N9020A     | MY532800 32    | 2021-10-22 | 2022-10-21   |
| 6                              | Signal Generator                      | Agilent      | E4421B     | MY410007 43    | 2021-10-22 | 2022-10-21   |
| 7                              | MXG RF Vector Signal Generator        | Agilent      | N5182A     | MY481806 56    | 2021-10-22 | 2022-10-21   |

| Emissions in frequency bands (below 1GHz) |                           |                 |            |            |            |              |
|-------------------------------------------|---------------------------|-----------------|------------|------------|------------|--------------|
| Item                                      | Equipment                 | Manufacturer    | Model No.  | Serial No. | Last Cal.  | Cal.Due Date |
| 1                                         | EMI Test Receiver(RE2/3#) | Rohde & Schwarz | ESR26      | 101481     | 2025-01-14 | 2026-01-13   |
| 2                                         | Pre-amplifier             | SONOMA          | 310N       | 186860     | 2025-01-14 | 2026-01-13   |
| 3                                         | Bilog Broadband Antenna   | Schwarzbeck     | VULB9163   | 345        | 2022-10-23 | 2025-10-22   |
| 4                                         | Loop Antenna (9K-30M)     | Schwarzbeck     | FMZB1519 B | 00053      | 2024-09-12 | 2025-09-11   |
| 5                                         | EMI Test Software EZ-EMC  | SHURPLE         | N/A        | N/A        | /          | /            |



2. Antenna requirement

|                   |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section. |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

2.1. Conclusion

|                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The antenna is a <b>FPC antenna</b> which permanently attached, and the best case gain of the antenna is <b>4.49dBi</b> . It complies with the standard requirement. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

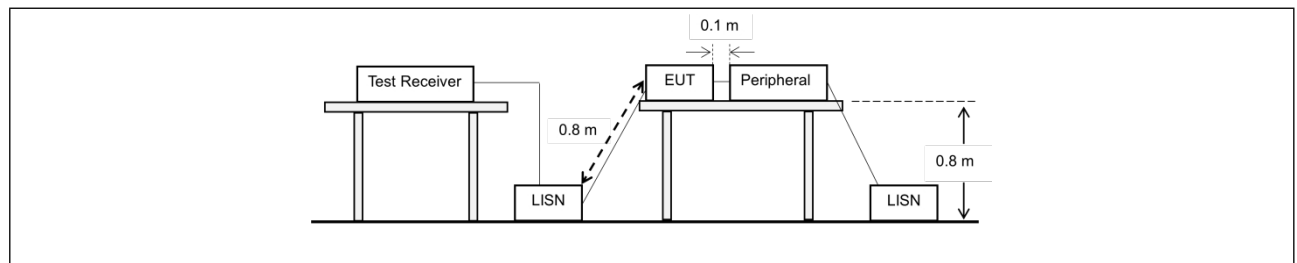
### 3. Conducted Emission at AC power line

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Test Requirement: | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit:       | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Conducted limit (dB $\mu$ V) |           |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quasi-peak                   | Average   |
|                   | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 66 to 56*                    | 56 to 46* |
|                   | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56                           | 46        |
|                   | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60                           | 50        |
|                   | *Decreases with the logarithm of the frequency.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |           |
| Test Method:      | ANSI C63.10-2020 section 6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |           |
| Procedure:        | Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices                                                                                                                                                                                                                                                                                                                                              |                              |           |

#### 3.1. EUT Operation

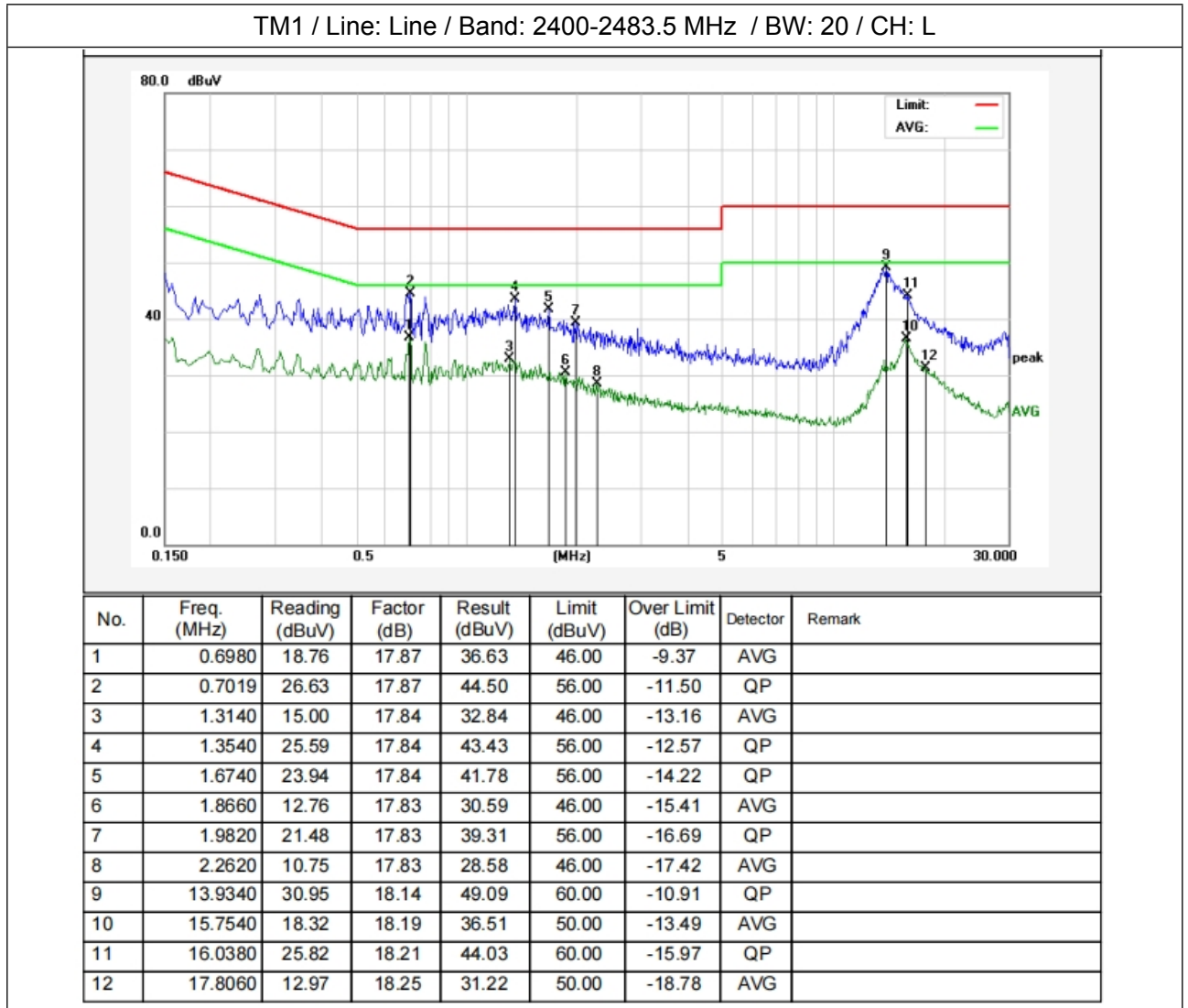
|                        |                                                                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                  |
| Test mode:             | 1: 802.11b mode: Keep the EUT in 802.11b transmitting mode.<br>2: 802.11g mode: Keep the EUT in 802.11g transmitting mode.<br>3: 802.11n(HT20) mode: Keep the EUT in 802.11n(HT20) transmitting mode.<br>4: 802.11n(HT40) mode: Keep the EUT in 802.11n(HT40) transmitting mode. |

#### 3.2. Test Setup



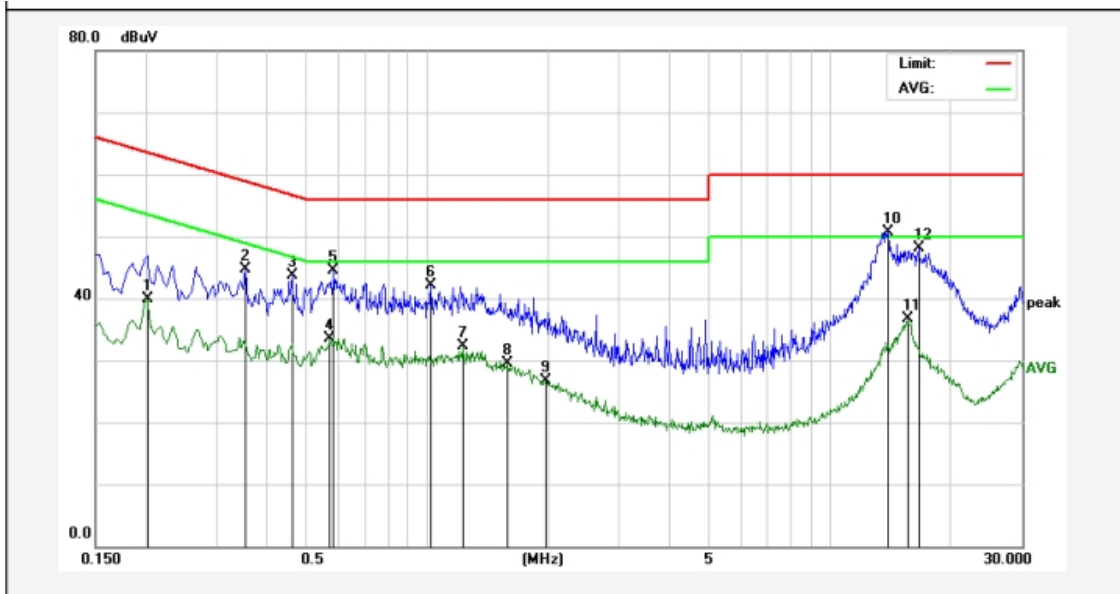
### 3.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 22.7 °C | Humidity: | 50 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 22.7 °C | Humidity: | 50 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 20 / CH: L



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|--------------|-----------------|----------|--------|
| 1   | 0.2020      | 22.06          | 17.83       | 39.89         | 53.52        | -13.63          | AVG      |        |
| 2   | 0.3540      | 26.98          | 17.82       | 44.80         | 58.87        | -14.07          | QP       |        |
| 3   | 0.4620      | 25.83          | 17.83       | 43.66         | 56.66        | -13.00          | QP       |        |
| 4   | 0.5740      | 15.71          | 17.86       | 33.57         | 46.00        | -12.43          | AVG      |        |
| 5   | 0.5860      | 26.72          | 17.86       | 44.58         | 56.00        | -11.42          | QP       |        |
| 6   | 1.0220      | 24.23          | 17.85       | 42.08         | 56.00        | -13.92          | QP       |        |
| 7   | 1.2260      | 14.40          | 17.84       | 32.24         | 46.00        | -13.76          | AVG      |        |
| 8   | 1.5900      | 11.57          | 17.84       | 29.41         | 46.00        | -16.59          | AVG      |        |
| 9   | 1.9780      | 8.90           | 17.83       | 26.73         | 46.00        | -19.27          | AVG      |        |
| 10  | 13.9460     | 32.63          | 18.14       | 50.77         | 60.00        | -9.23           | QP       |        |
| 11  | 15.6220     | 18.51          | 18.19       | 36.70         | 50.00        | -13.30          | AVG      |        |
| 12  | 16.6140     | 29.84          | 18.22       | 48.06         | 60.00        | -11.94          | QP       |        |

Note: Only the worst case data was showed in the report.

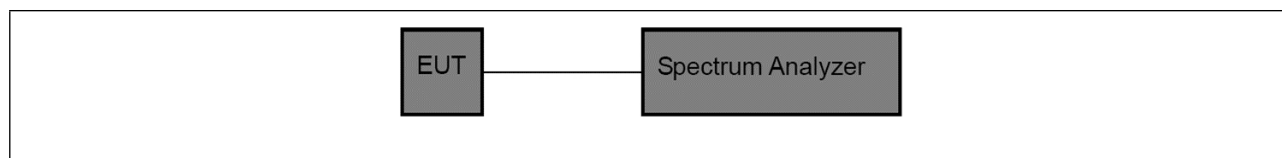
## 4. Maximum Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Limit:       | Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method:      | ANSI C63.10-2020, section 11.9.2<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Procedure:        | ANSI C63.10-2020, section 11.9.2 Maximum conducted (average) output power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### 4.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                  |
| Test mode:             | 1: 802.11b mode: Keep the EUT in 802.11b transmitting mode.<br>2: 802.11g mode: Keep the EUT in 802.11g transmitting mode.<br>3: 802.11n(HT20) mode: Keep the EUT in 802.11n(HT20) transmitting mode.<br>4: 802.11n(HT40) mode: Keep the EUT in 802.11n(HT40) transmitting mode. |

### 4.2. Test Setup



### 4.3. Test Data

|              |         |           |        |                       |         |
|--------------|---------|-----------|--------|-----------------------|---------|
| Temperature: | 24.3 °C | Humidity: | 56.2 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|--------|-----------------------|---------|

| TestMode | Antenna | Channel | Result[dBm]  | Limit[dBm] | Verdict |
|----------|---------|---------|--------------|------------|---------|
| 11B      | Ant1    | 2412    | <b>14.47</b> | ≤30        | PASS    |
|          |         | 2437    | 14.33        | ≤30        | PASS    |
|          |         | 2462    | 14.28        | ≤30        | PASS    |
| 11G      | Ant1    | 2412    | 13.74        | ≤30        | PASS    |
|          |         | 2437    | 13.75        | ≤30        | PASS    |
|          |         | 2462    | 13.55        | ≤30        | PASS    |
| 11N20    | Ant1    | 2412    | 13.60        | ≤30        | PASS    |
|          |         | 2437    | 13.59        | ≤30        | PASS    |
|          |         | 2462    | 13.47        | ≤30        | PASS    |
| 11N40    | Ant1    | 2422    | 12.20        | ≤30        | PASS    |
|          |         | 2437    | 11.52        | ≤30        | PASS    |
|          |         | 2452    | 12.23        | ≤30        | PASS    |

Note: For pre-scan, the result is equal to original, so the original data is referenced.

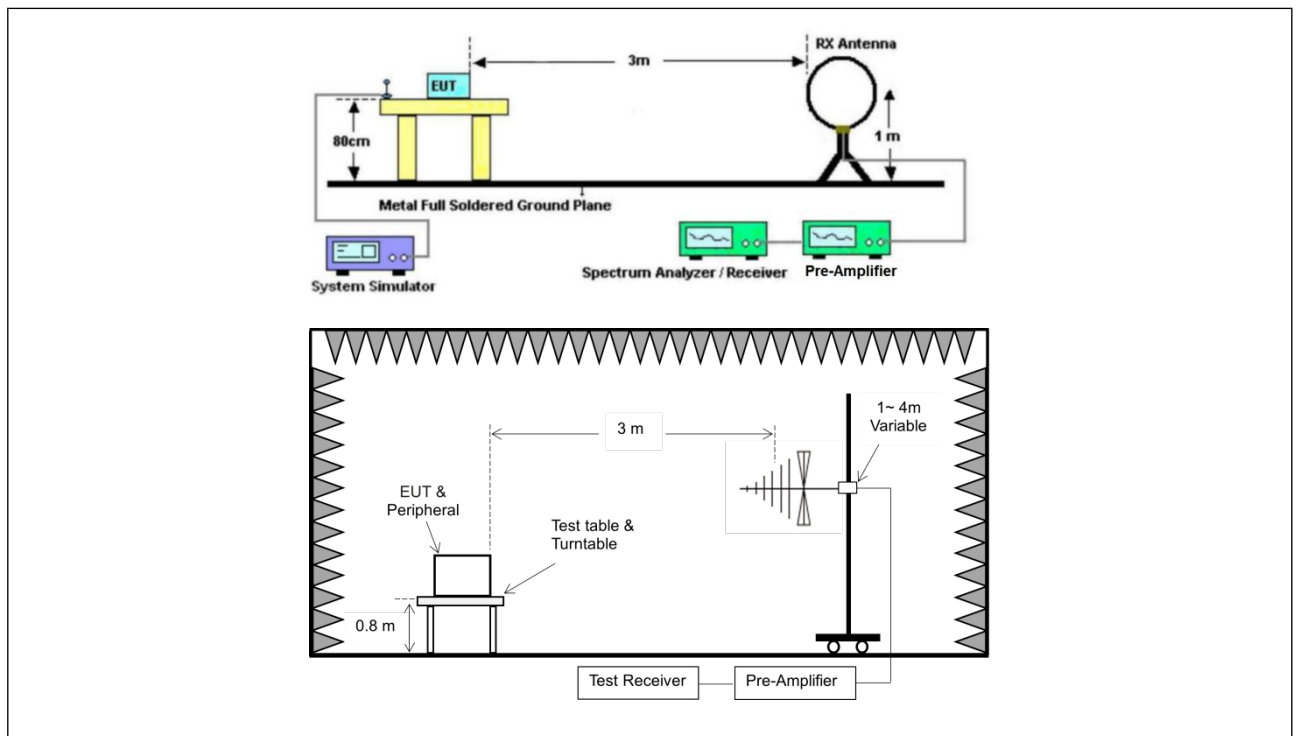
## 5. Emissions in frequency bands (below 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                          |                                   |                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).` |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Frequency (MHz)                                                                                                                                                                                                          | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.009-0.490                                                                                                                                                                                                              | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.490-1.705                                                                                                                                                                                                              | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.705-30.0                                                                                                                                                                                                               | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30-88                                                                                                                                                                                                                    | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 88-216                                                                                                                                                                                                                   | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 216-960                                                                                                                                                                                                                  | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Above 960                                                                                                                                                                                                                | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                          |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ANSI C63.10-2020 section 6.6.4<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                             |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                                           |                                   |                               |

### 5.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                     |
| Test mode:             | <p>1: 802.11b mode: Keep the EUT in 802.11b transmitting mode.</p> <p>2: 802.11g mode: Keep the EUT in 802.11g transmitting mode.</p> <p>3: 802.11n(HT20) mode: Keep the EUT in 802.11n(HT20) transmitting mode.</p> <p>4: 802.11n(HT40) mode: Keep the EUT in 802.11n(HT40) transmitting mode.</p> |

## 5.2. Test Setup



### Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,  
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
Tel:(86)0755-26066440 Email:service@anbotek.com

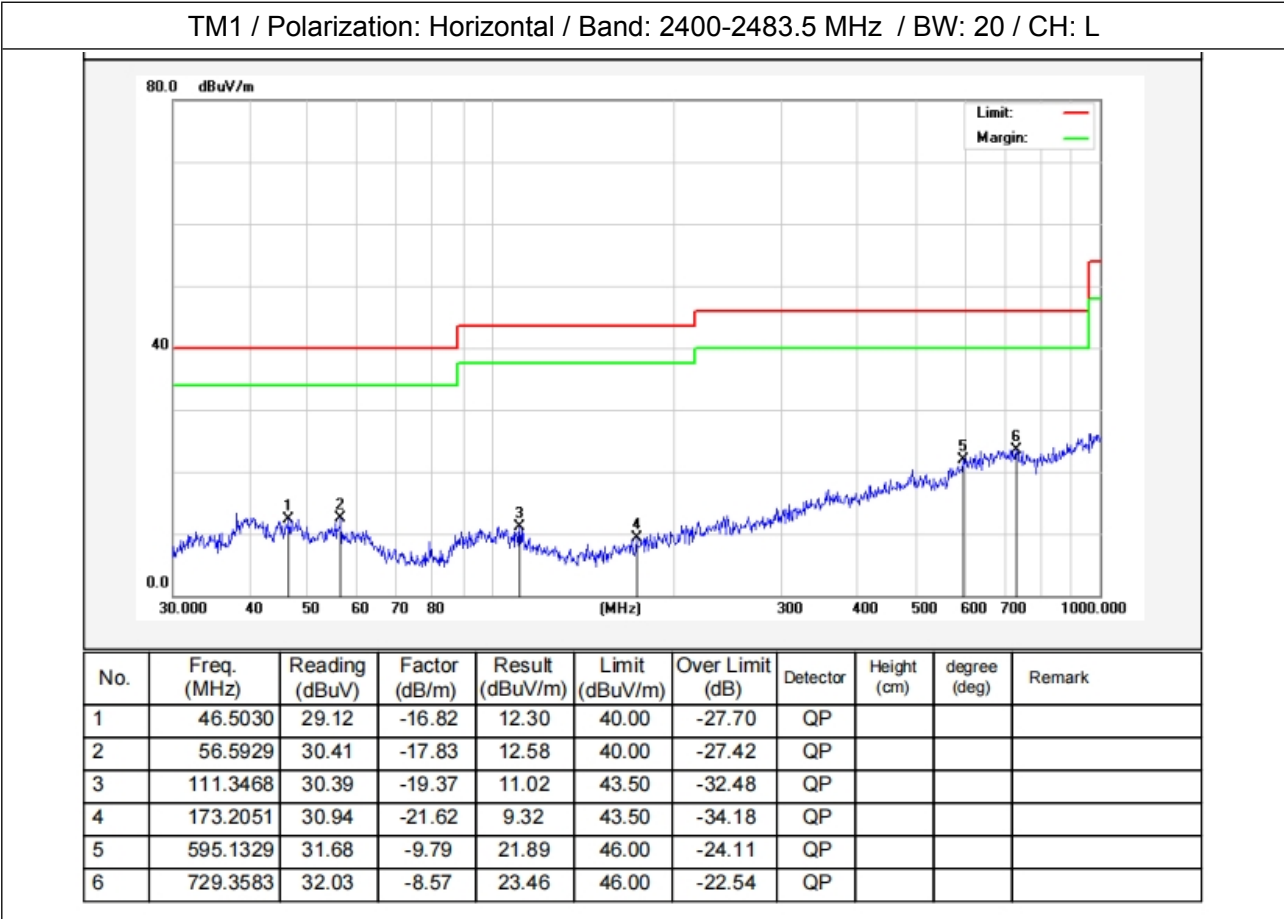
Hotline  
400-003-0500  
www.anbotek.com



5.3. Test Data

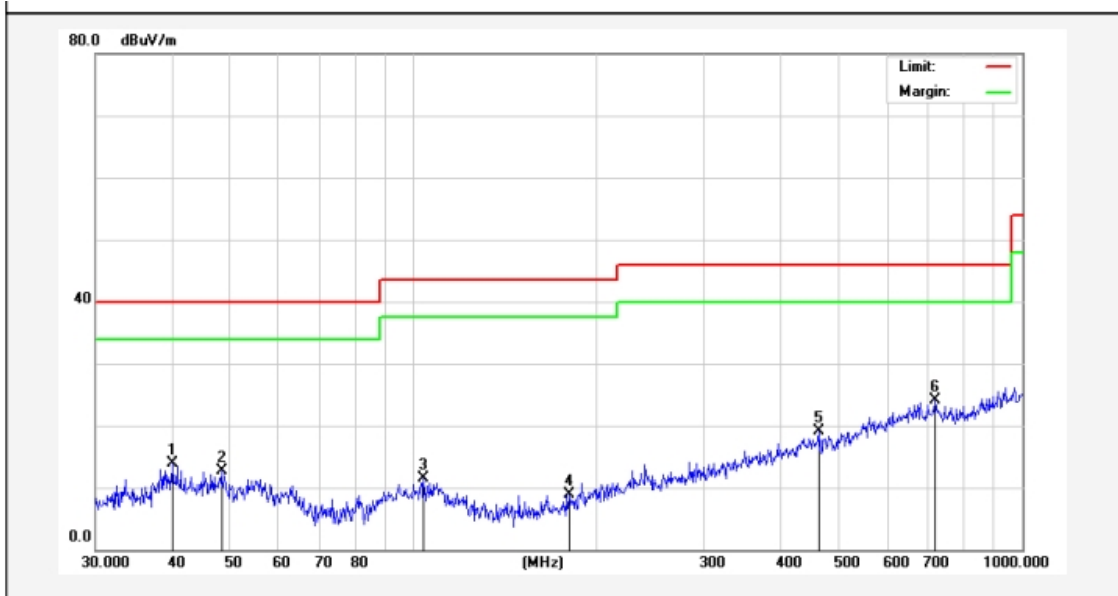
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 40.1347     | 29.81          | -15.97        | 13.84           | 40.00          | -26.16          | QP       |             |              |        |
| 2   | 48.3318     | 29.74          | -17.06        | 12.68           | 40.00          | -27.32          | QP       |             |              |        |
| 3   | 103.8055    | 30.36          | -18.78        | 11.58           | 43.50          | -31.92          | QP       |             |              |        |
| 4   | 180.0165    | 29.83          | -20.99        | 8.84            | 43.50          | -34.66          | QP       |             |              |        |
| 5   | 462.3455    | 31.52          | -12.36        | 19.16           | 46.00          | -26.84          | QP       |             |              |        |
| 6   | 719.1995    | 32.70          | -8.68         | 24.02           | 46.00          | -21.98          | QP       |             |              |        |

Note: Only the worst case data was showed in the report.

## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----