



# FCC RADIO TEST REPORT

FCC ID : 2AWGI05181994  
Equipment : POWER DOCK  
Brand Name : PUFFCO  
Model Name : 051894  
Applicant : Puff Corporation  
1201 W 5th Street Suite T530,  
Los Angeles 90017  
Manufacturer : Puff Corp  
1201 W 5th Street Suite T530,  
Los Angeles 90017  
Standard : FCC Part 15 Subpart C §15.209

The product was received on Jun. 29, 2020 and testing was started from Jul. 03, 2020 and completed on Jul. 14, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Reviewed by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



## Table of Contents

|                                                              |           |
|--------------------------------------------------------------|-----------|
| <b>History of this test report.....</b>                      | <b>3</b>  |
| <b>Summary of Test Result.....</b>                           | <b>4</b>  |
| <b>1. General Description .....</b>                          | <b>5</b>  |
| 1.1 Product Feature of Equipment Under Test .....            | 5         |
| 1.2 Modification of EUT .....                                | 5         |
| 1.3 Testing Location .....                                   | 5         |
| 1.4 Applicable Standards.....                                | 5         |
| <b>2. Test Configuration of Equipment Under Test.....</b>    | <b>6</b>  |
| 2.1 Descriptions of Test Mode .....                          | 6         |
| 2.2 Connection Diagram of Test System .....                  | 7         |
| 2.3 Support Unit used in test configuration and system ..... | 7         |
| 2.4 EUT Operation Test Setup .....                           | 7         |
| <b>3. Test Results .....</b>                                 | <b>8</b>  |
| 3.1 AC Power Line Conducted Emissions Measurement .....      | 8         |
| 3.2 99% OBW Spectrum Bandwidth Measurement .....             | 10        |
| 3.3 Radiated Emissions Measurement .....                     | 11        |
| 3.4 Antenna Requirements.....                                | 14        |
| <b>4. List of Measuring Equipment .....</b>                  | <b>15</b> |
| <b>5. Uncertainty of Evaluation .....</b>                    | <b>16</b> |
| <b>Appendix A. Test Results of Conducted Emission Test</b>   |           |
| <b>Appendix B. Test Results of Conducted Test Items</b>      |           |
| B1. Test Result of 20dB Spectrum Bandwidth                   |           |
| <b>Appendix C. Test Results of Radiated Test Items</b>       |           |
| C1. Test Result of Field Strength of Fundamental Emissions   |           |
| C2. Results of Radiated Emissions (9 kHz~30MHz)              |           |
| C3. Results of Radiated Emissions (30MHz~1GHz)               |           |
| <b>Appendix D. Setup Photographs</b>                         |           |



## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FR061001   | 01      | Initial issue of report | Jul. 22, 2020 |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                              | Result (PASS/FAIL) | Remark                                          |
|---------------|-----------------|-----------------------------------------|--------------------|-------------------------------------------------|
| 3.1           | 15.207          | AC Power Line Conducted Emissions       | Pass               | Under limit<br>9.83 dB at<br>0.161MHz           |
| 3.2           | 2.1049          | 99% OBW Spectrum Bandwidth              | Reporting only     | -                                               |
| 3.3           | 15.209          | Field Strength of Fundamental Emissions | Pass               | Max level<br>13.25 dB $\mu$ V/m at<br>0.150 MHz |
|               |                 | Radiated Spurious Emissions             | Pass               | Under limit<br>6.38 dB at<br>39.180MHz          |
| 3.4           | 15.203          | Antenna Requirements                    | Pass               | -                                               |

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

**Reviewed by:** Wii Chang

**Report Producer:** Lucy Wu

## 1. General Description

### 1.1 Product Feature of Equipment Under Test

WPT

| Product Specification subjective to this standard |              |
|---------------------------------------------------|--------------|
| Antenna Type                                      | Wire Antenna |

### 1.2 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.3 Testing Location

|                    |                                                                                                                       |         |            |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|---------|------------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                   |         |            |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |         |            |
| Test Site No.      | Sporton Site No.                                                                                                      |         |            |
|                    | TH03-HY                                                                                                               | CO05-HY | 03CH07-HY  |
| Test Engineer      | Louis Chung                                                                                                           | Tom Lee | Jesse Wang |
| Temperature        | 25.8°C                                                                                                                | 23~25°C | 23~24°C    |
| Relative Humidity  | 53.1%                                                                                                                 | 42~50%  | 45~47%     |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190

### 1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.209
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

**Remark:**

1. The TAF code is not including all the FCC KDB listed without accreditation.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2. Test Configuration of Equipment Under Test

### 2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

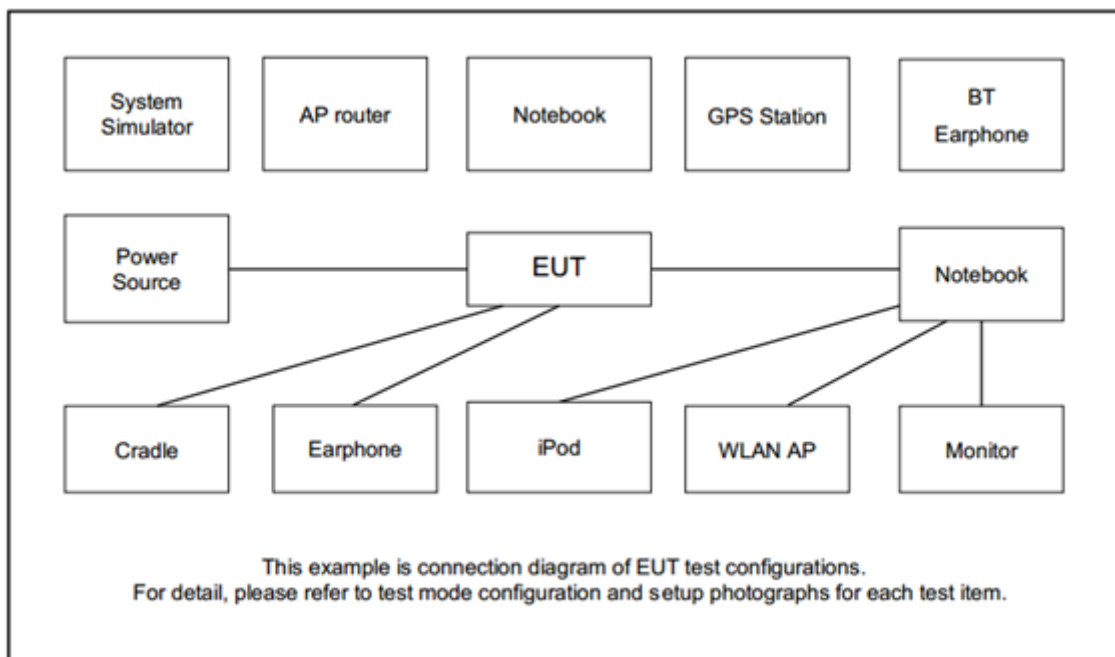
The following table is a list of the test modes shown in this test report.

| Test Items                              |                               |
|-----------------------------------------|-------------------------------|
| AC Power Line Conducted Emissions       | 20dB Spectrum Bandwidth       |
| Field Strength of Fundamental Emissions | Radiated Emissions 9kHz~30MHz |
| Radiated Emissions 30MHz~1GHz           |                               |

Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration from all possible combinations.

| Test Cases                                                                                           |                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC<br>Conducted<br>Emission                                                                          | Mode 1: WPT Charging with Peak Pro + USB Cable (Type A) (Charging with Phone) + USB Cable (Type C) (Charging from Notebook)<br>Mode 2: WPT Charging with Peak Pro + USB Cable (Type A) (Charging with Phone) + USB Cable (Type C) (Charging from Adapter) |
| <b>Remark:</b> The worst case of conducted emission is mode 1; only the test data of it was reported |                                                                                                                                                                                                                                                           |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment   | Trade Name | Model Name    | FCC ID      | Data Cable      | Power Cord                                                 |
|------|-------------|------------|---------------|-------------|-----------------|------------------------------------------------------------|
| 1.   | WLAN AP     | ASUS       | RT-AC66U      | MSQ-RTAC66U | N/A             | Unshielded,1.8m                                            |
| 2.   | iPod        | Apple      | A1285         | FCC DoC     | Shielded, 1.0 m | N/A                                                        |
| 3.   | Notebook    | DELL       | Latitude 3400 | FCC DoC     | N/A             | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 4.   | USB Cable   | N/A        | HC70211.021   | N/A         | N/A             | N/A                                                        |
| 5.   | Phone       | Sony       | I5            | N/A         | N/A             | N/A                                                        |
| 6.   | Smart Phone | Samsung    | A8            | FCC DoC     | N/A             | N/A                                                        |
| 7.   | Adapter     | VERTU      | AC-32V        | FCC DoC     | Shielded, 1.6m  | Unshielded,1.8m                                            |
| 8.   | Peak Pro    | PUFFCO     | Peak Pro      | N/A         | N/A             | N/A                                                        |

## 2.4 EUT Operation Test Setup

The EUT charger with Peak Pro via wireless power transfer function

### 3. Test Results

#### 3.1 AC Power Line Conducted Emissions Measurement

##### 3.1.1 Limit of AC Conducted Emission

For equipment 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.

| Frequency of Emission<br>(MHz) | Conducted Limit (dBμV) |           |
|--------------------------------|------------------------|-----------|
|                                | 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.

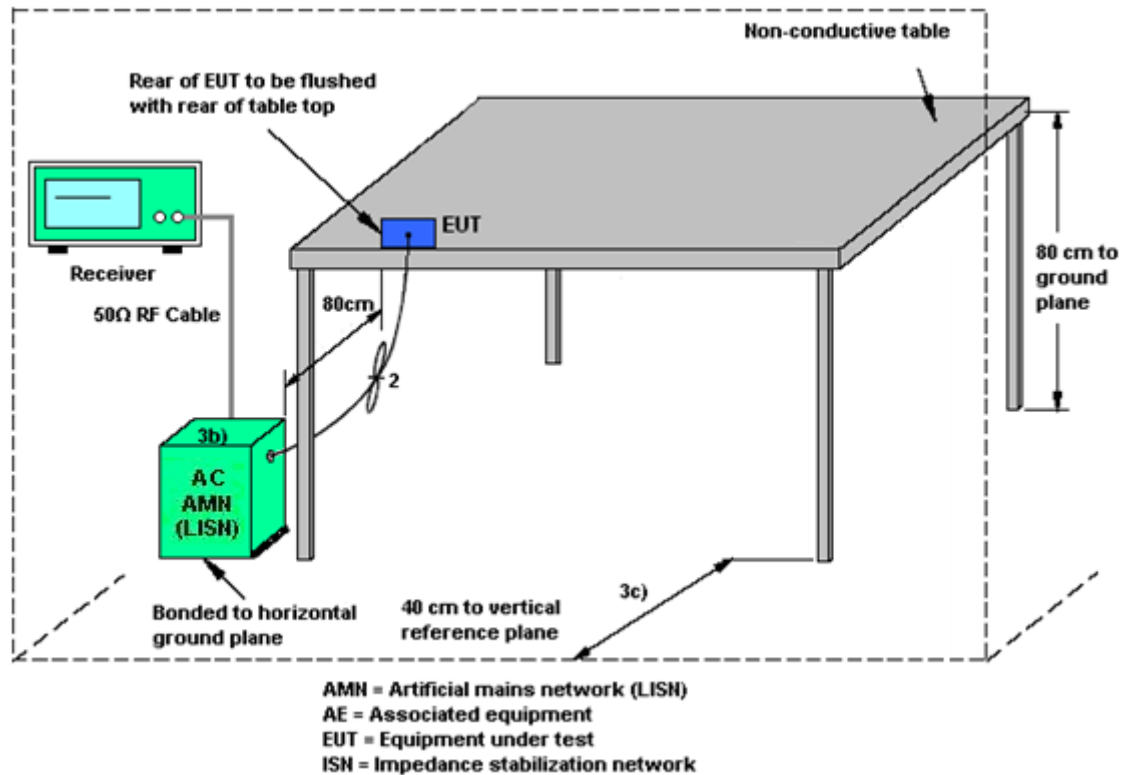
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.1.4 Test setup



### 3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

## 3.2 99% OBW Spectrum Bandwidth Measurement

### 3.2.1 Limit

Reporting only

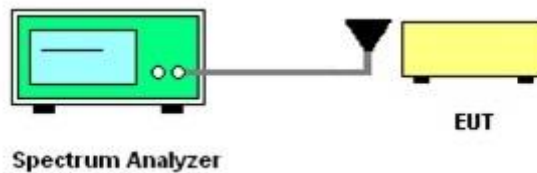
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

### 3.3 Radiated Emissions Measurement

#### 3.3.1 Limit

The field strength of any emissions which appear band shall not exceed the general radiated emissions limits.

| Frequencies<br>(MHz) | Field Strength<br>( $\mu\text{V/m}$ ) | Measurement Distance<br>(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                                |

#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Measuring Instrument Setting

The following table is the setting of receiver:

| Receiver Parameter             | Setting             |
|--------------------------------|---------------------|
| Attenuation                    | Auto                |
| Frequency Range: 9kHz~150kHz   | RBW 200Hz for QP    |
| Frequency Range: 150kHz~30MHz  | RBW 9kHz for QP     |
| Frequency Range: 30MHz~1000MHz | RBW 120kHz for Peak |

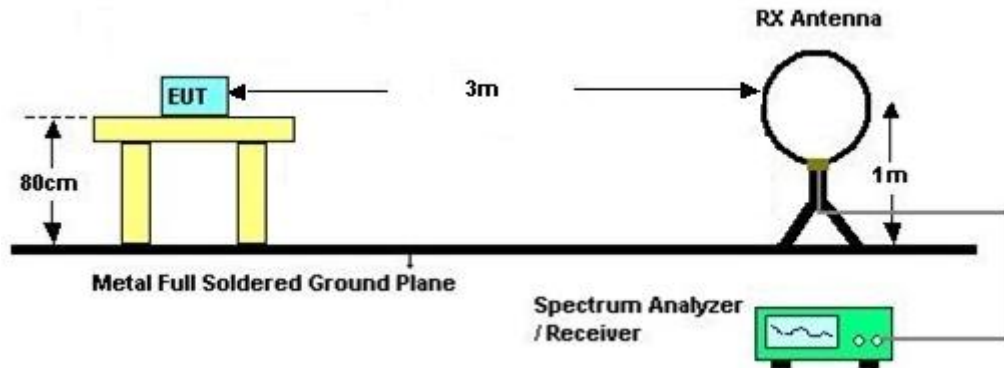
**Note:** The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

### **3.3.4 Test Procedures**

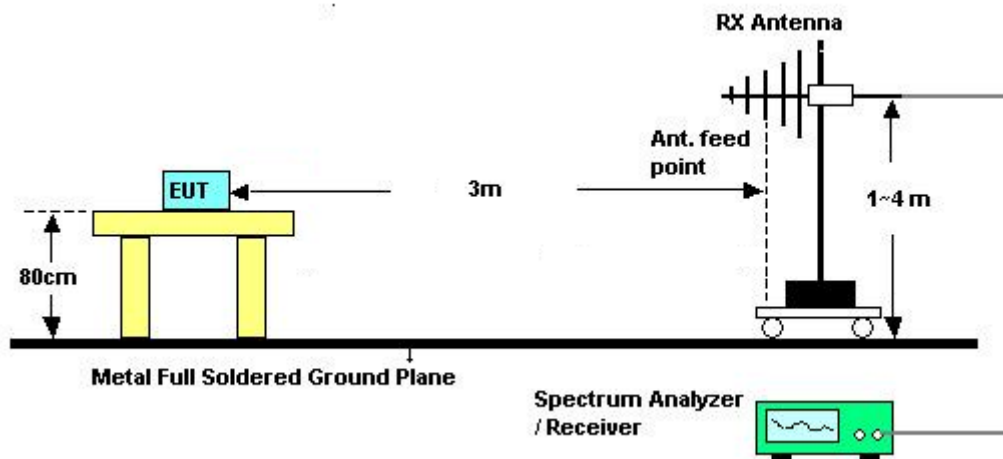
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.

### 3.3.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



### 3.3.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.



## **3.4 Antenna Requirements**

### **3.4.1 Standard Applicable**

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

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 rule.

### **3.4.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



## 4. List of Measuring Equipment

| Instrument        | Manufacturer    | Model No.                  | Serial No.                      | Characteristics    | Calibration Date | Test Date     | Due Date      | Remark                |
|-------------------|-----------------|----------------------------|---------------------------------|--------------------|------------------|---------------|---------------|-----------------------|
| Hygrometer        | Testo           | 608-H1                     | 34893241                        | N/A                | Mar. 26, 2020    | Jul. 14, 2020 | Mar. 25, 2021 | Conducted (TH03-HY)   |
| Spectrum Analyzer | Rohde & Schwarz | FSP30                      | 101329                          | 9kHz~30GHz         | Sep. 04, 2019    | Jul. 14, 2020 | Sep. 03, 2020 | Conducted (TH03-HY)   |
| AC Power Source   | ChainTek        | APC-1000W                  | N/A                             | N/A                | N/A              | Jul. 03, 2020 | N/A           | Conduction (CO05-HY)  |
| EMI Test Receiver | Rohde & Schwarz | ESR3                       | 102388                          | 9kHz~3.6GHz        | Nov. 15, 2019    | Jul. 03, 2020 | Nov. 14, 2020 | Conduction (CO05-HY)  |
| Hygrometer        | Testo           | 608-H1                     | 34913912                        | N/A                | Nov. 07, 2019    | Jul. 03, 2020 | Nov. 06, 2020 | Conduction (CO05-HY)  |
| LISN              | Rohde & Schwarz | ENV216                     | 100080                          | 9kHz~30MHz         | Nov. 20, 2019    | Jul. 03, 2020 | Nov. 19, 2020 | Conduction (CO05-HY)  |
| LISN              | Rohde & Schwarz | ENV216                     | 100081                          | 9kHz~30MHz         | Nov. 15, 2019    | Jul. 03, 2020 | Nov. 14, 2020 | Conduction (CO05-HY)  |
| Software          | Rohde & Schwarz | EMC32 V10.30               | N/A                             | N/A                | N/A              | Jul. 03, 2020 | N/A           | Conduction (CO05-HY)  |
| LF Cable          | HUBER + SUHNER  | RG-214/U                   | LF01                            | N/A                | Jan. 02, 2020    | Jul. 03, 2020 | Jan. 01, 2021 | Conduction (CO05-HY)  |
| Pulse Limiter     | Rohde & Schwarz | ESH3-Z2                    | 100851                          | N/A                | Jan. 02, 2020    | Jul. 03, 2020 | Jan. 01, 2021 | Conduction (CO05-HY)  |
| Bilog Antenna     | TESEQ           | CBL 6111D & 00800N1D01N-06 | 35419 & 03                      | 30MHz~1GHz         | Apr. 29, 2020    | Jul. 13, 2020 | Apr. 28, 2021 | Radiation (03CH07-HY) |
| EMI Test Receiver | Agilent         | N9038A(MXE)                | MY53290053                      | 20Hz~26.5GHz       | May 21, 2020     | Jul. 13, 2020 | May 20, 2021  | Radiation (03CH07-HY) |
| Loop Antenna      | Rohde & Schwarz | HFH2-Z2                    | 100315                          | 9 kHz~30 MHz       | Dec. 26, 2019    | Jul. 13, 2020 | Dec. 25, 2020 | Radiation (03CH07-HY) |
| Preamplifier      | COM-POWER       | PA-103A                    | 161241                          | 10MHz~1GHz         | May 19, 2020     | Jul. 13, 2020 | May 18, 2021  | Radiation (03CH07-HY) |
| RF Cable          | HUBER + SUHNER  | SUCOFLEX 104               | MY24971/4, MY28655/4            | 9kHz~30MHz         | Feb. 25, 2020    | Jul. 13, 2020 | Feb. 24, 2021 | Radiation (03CH07-HY) |
| RF Cable          | HUBER + SUHNER  | SUCOFLEX 104               | MY28655/4, MY24971/4, MY15682/4 | 30MHz~1GHz         | Feb. 25, 2020    | Jul. 13, 2020 | Feb. 24, 2021 | Radiation (03CH07-HY) |
| Controller        | ChainTek        | Chaintek 3000              | N/A                             | Control Turn table | N/A              | Jul. 13, 2020 | N/A           | Radiation (03CH07-HY) |
| Controller        | Max-Full        | MF7802                     | MF780208368                     | Control Ant Mast   | N/A              | Jul. 13, 2020 | N/A           | Radiation (03CH07-HY) |
| Antenna Mast      | Max-Full        | MFA520BS                   | N/A                             | 1m~4m              | N/A              | Jul. 13, 2020 | N/A           | Radiation (03CH07-HY) |
| Turn Table        | ChainTek        | Chaintek 3000              | N/A                             | 0~360 Degree       | N/A              | Jul. 13, 2020 | N/A           | Radiation (03CH07-HY) |
| USB Data Logger   | TECPEL          | TR-32                      | HE17XB2495                      | N/A                | N/A              | Jul. 13, 2020 | N/A           | Radiation (03CH07-HY) |
| Spectrum Analyzer | Agilent         | N9030A                     | MY52350276                      | 3Hz~44GHz          | Jun. 09, 2020    | Jul. 13, 2020 | Jun. 08, 2021 | Radiation (03CH07-HY) |
| Software          | Audix           | E3 6.2009-8-24             | 80504004656 H                   | N/A                | N/A              | Jul. 13, 2020 | N/A           | Radiation (03CH07-HY) |

## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|                                                                             |     |
|-----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 2.3 |
|-----------------------------------------------------------------------------|-----|

### Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

|                                                                             |     |
|-----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 2.6 |
|-----------------------------------------------------------------------------|-----|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                             |     |
|-----------------------------------------------------------------------------|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_c(y)$ ) | 4.6 |
|-----------------------------------------------------------------------------|-----|



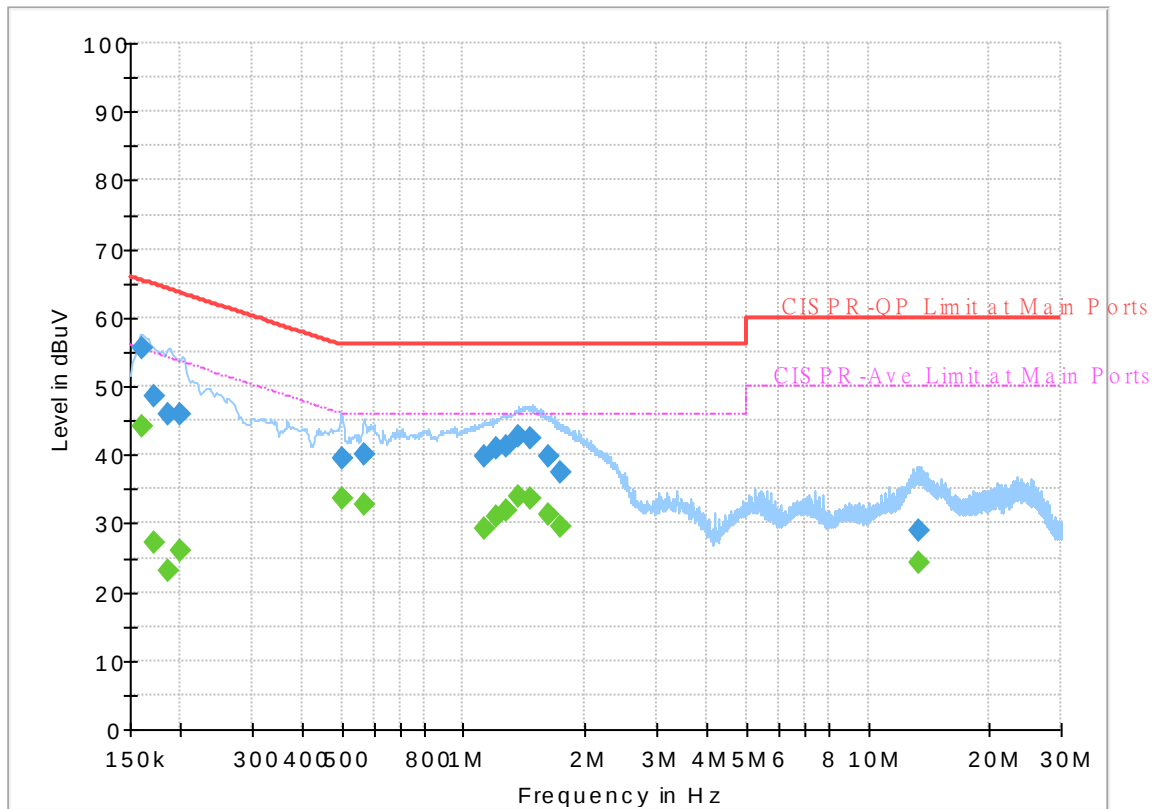
## **Appendix A. Test Results of Conducted Emission Test**

|                        |         |                            |        |
|------------------------|---------|----------------------------|--------|
| <b>Test Engineer :</b> | Tom Lee | <b>Temperature :</b>       | 23~25℃ |
|                        |         | <b>Relative Humidity :</b> | 42~50% |

## EUT Information

Report NO : 061001  
 Test Mode : Mode 1  
 Test Voltage : Power From System  
 Phase : Line

Full Spectrum



## Final\_Result

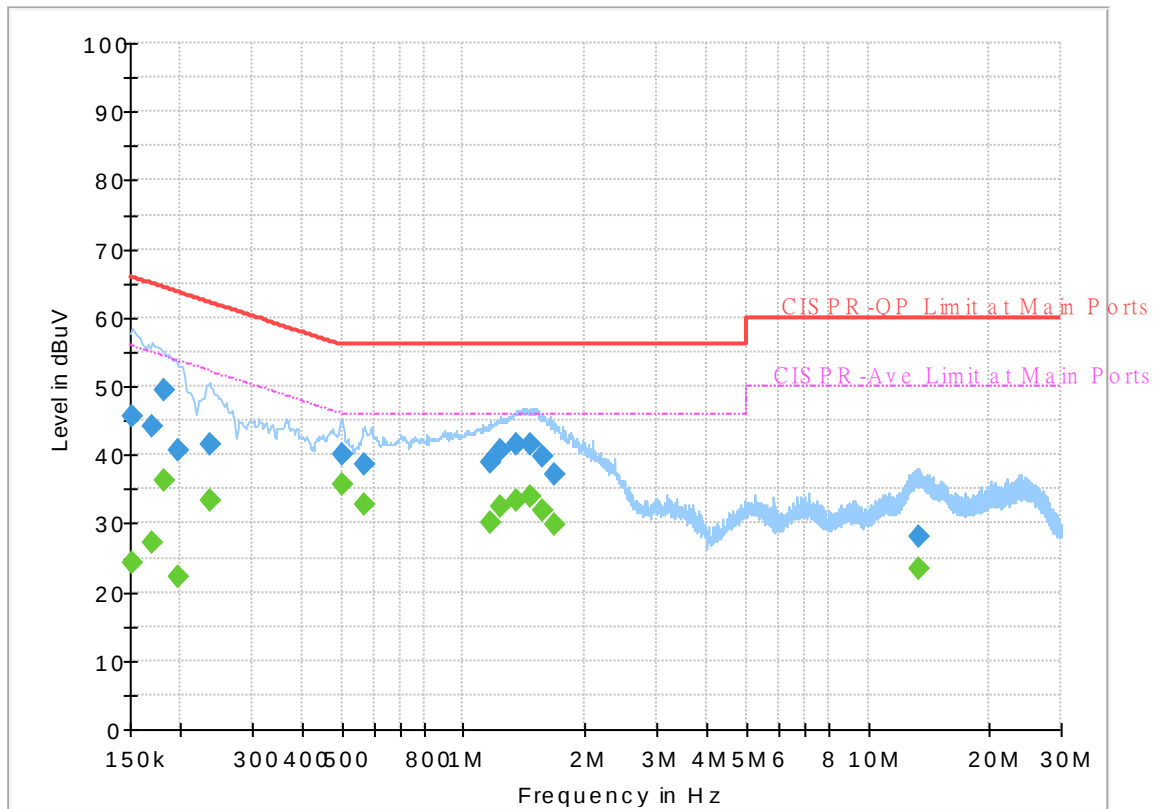
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.161250        | ---              | 44.16           | 55.40        | 11.24       | L1   | OFF    | 19.5       |
| 0.161250        | 55.57            | ---             | 65.40        | 9.83        | L1   | OFF    | 19.5       |
| 0.172500        | ---              | 27.17           | 54.84        | 27.67       | L1   | OFF    | 19.5       |
| 0.172500        | 48.45            | ---             | 64.84        | 16.39       | L1   | OFF    | 19.5       |
| 0.186000        | ---              | 23.00           | 54.21        | 31.21       | L1   | OFF    | 19.5       |
| 0.186000        | 46.04            | ---             | 64.21        | 18.17       | L1   | OFF    | 19.5       |
| 0.199500        | ---              | 25.90           | 53.63        | 27.73       | L1   | OFF    | 19.5       |
| 0.199500        | 45.86            | ---             | 63.63        | 17.77       | L1   | OFF    | 19.5       |
| 0.503250        | ---              | 33.53           | 46.00        | 12.47       | L1   | OFF    | 19.5       |
| 0.503250        | 39.47            | ---             | 56.00        | 16.53       | L1   | OFF    | 19.5       |
| 0.568770        | ---              | 32.78           | 46.00        | 13.22       | L1   | OFF    | 19.5       |
| 0.568770        | 40.13            | ---             | 56.00        | 15.87       | L1   | OFF    | 19.5       |
| 1.125690        | ---              | 29.23           | 46.00        | 16.77       | L1   | OFF    | 19.5       |
| 1.125690        | 39.64            | ---             | 56.00        | 16.36       | L1   | OFF    | 19.5       |
| 1.207500        | ---              | 30.99           | 46.00        | 15.01       | L1   | OFF    | 19.6       |
| 1.207500        | 40.89            | ---             | 56.00        | 15.11       | L1   | OFF    | 19.6       |
| 1.279500        | ---              | 31.82           | 46.00        | 14.18       | L1   | OFF    | 19.6       |
| 1.279500        | 41.20            | ---             | 56.00        | 14.80       | L1   | OFF    | 19.6       |
| 1.365180        | ---              | 33.82           | 46.00        | 12.18       | L1   | OFF    | 19.6       |
| 1.365180        | 42.69            | ---             | 56.00        | 13.31       | L1   | OFF    | 19.6       |
| 1.470750        | ---              | 33.53           | 46.00        | 12.47       | L1   | OFF    | 19.6       |

|           |       |       |       |       |    |     |      |
|-----------|-------|-------|-------|-------|----|-----|------|
| 1.470750  | 42.40 | ---   | 56.00 | 13.60 | L1 | OFF | 19.6 |
| 1.614750  | ---   | 31.26 | 46.00 | 14.74 | L1 | OFF | 19.6 |
| 1.614750  | 39.83 | ---   | 56.00 | 16.17 | L1 | OFF | 19.6 |
| 1.740750  | ---   | 29.48 | 46.00 | 16.52 | L1 | OFF | 19.6 |
| 1.740750  | 37.57 | ---   | 56.00 | 18.43 | L1 | OFF | 19.6 |
| 13.410960 | ---   | 24.17 | 50.00 | 25.83 | L1 | OFF | 19.8 |
| 13.410960 | 28.84 | ---   | 60.00 | 31.16 | L1 | OFF | 19.8 |

## EUT Information

Report NO : 061001  
 Test Mode : Mode 1  
 Test Voltage : Power From System  
 Phase : Neutral

Full Spectrum



## Final\_Result

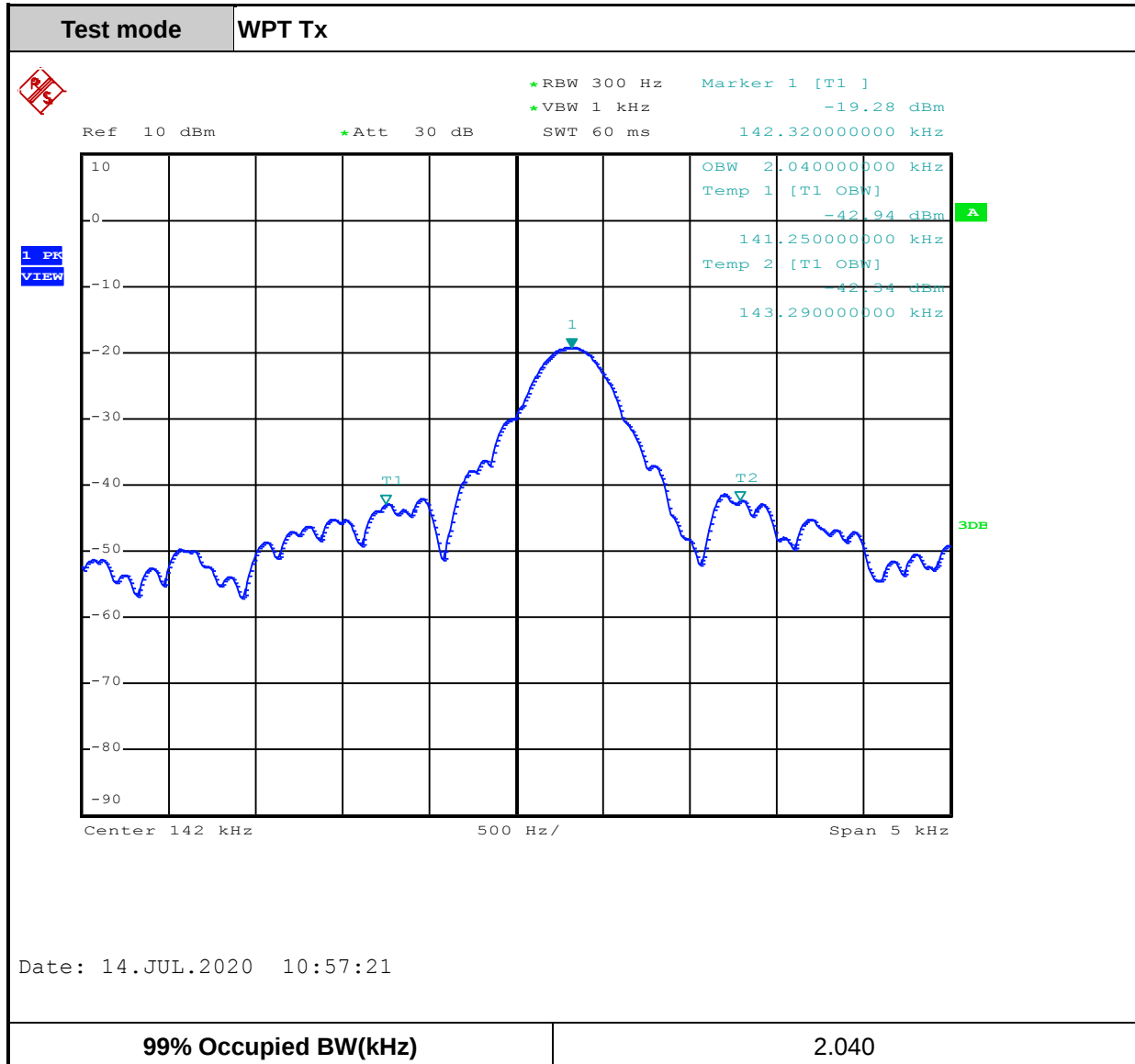
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250        | ---              | 24.36           | 55.88        | 31.52       | N    | OFF    | 19.5       |
| 0.152250        | 45.52            | ---             | 65.88        | 20.36       | N    | OFF    | 19.5       |
| 0.169530        | ---              | 27.31           | 54.98        | 27.67       | N    | OFF    | 19.5       |
| 0.169530        | 44.12            | ---             | 64.98        | 20.86       | N    | OFF    | 19.5       |
| 0.182220        | ---              | 36.30           | 54.38        | 18.08       | N    | OFF    | 19.5       |
| 0.182220        | 49.51            | ---             | 64.38        | 14.87       | N    | OFF    | 19.5       |
| 0.197250        | ---              | 22.11           | 53.73        | 31.62       | N    | OFF    | 19.5       |
| 0.197250        | 40.52            | ---             | 63.73        | 23.21       | N    | OFF    | 19.5       |
| 0.237020        | ---              | 33.36           | 52.20        | 18.84       | N    | OFF    | 19.5       |
| 0.237020        | 41.61            | ---             | 62.20        | 20.59       | N    | OFF    | 19.5       |
| 0.502980        | ---              | 35.76           | 46.00        | 10.24       | N    | OFF    | 19.5       |
| 0.502980        | 40.05            | ---             | 56.00        | 15.95       | N    | OFF    | 19.5       |
| 0.569670        | ---              | 32.73           | 46.00        | 13.27       | N    | OFF    | 19.5       |
| 0.569670        | 38.64            | ---             | 56.00        | 17.36       | N    | OFF    | 19.5       |
| 1.167000        | ---              | 30.14           | 46.00        | 15.86       | N    | OFF    | 19.6       |
| 1.167000        | 39.00            | ---             | 56.00        | 17.00       | N    | OFF    | 19.6       |
| 1.234500        | ---              | 32.37           | 46.00        | 13.63       | N    | OFF    | 19.6       |
| 1.234500        | 40.65            | ---             | 56.00        | 15.35       | N    | OFF    | 19.6       |
| 1.356000        | ---              | 33.36           | 46.00        | 12.64       | N    | OFF    | 19.6       |
| 1.356000        | 41.61            | ---             | 56.00        | 14.39       | N    | OFF    | 19.6       |
| 1.461750        | ---              | 33.98           | 46.00        | 12.02       | N    | OFF    | 19.6       |

|           |       |       |       |       |   |     |      |
|-----------|-------|-------|-------|-------|---|-----|------|
| 1.461750  | 41.60 | ---   | 56.00 | 14.40 | N | OFF | 19.6 |
| 1.572000  | ---   | 31.97 | 46.00 | 14.03 | N | OFF | 19.6 |
| 1.572000  | 39.82 | ---   | 56.00 | 16.18 | N | OFF | 19.6 |
| 1.686840  | ---   | 29.83 | 46.00 | 16.17 | N | OFF | 19.6 |
| 1.686840  | 37.25 | ---   | 56.00 | 18.75 | N | OFF | 19.6 |
| 13.346250 | ---   | 23.28 | 50.00 | 26.72 | N | OFF | 19.9 |
| 13.346250 | 28.02 | ---   | 60.00 | 31.98 | N | OFF | 19.9 |



## Appendix B. Test Results of Conducted Test Items

### B1. Test Result of 99% OBW Spectrum Bandwidth

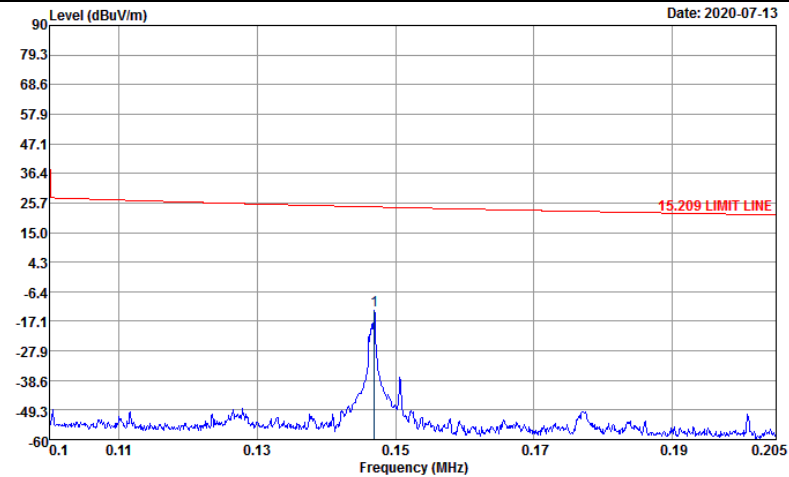


**Remark:** Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

## Appendix C. Test Results of Radiated Test Items

### C1. Test Result of Field Strength of Fundamental Emissions

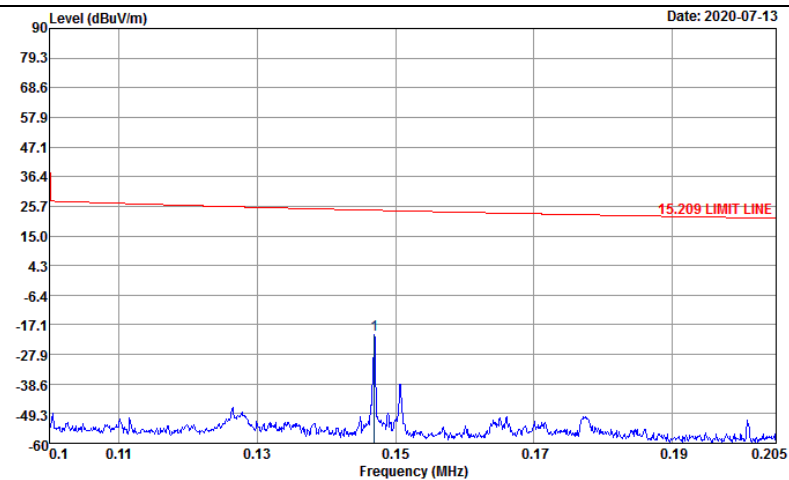
**Test Mode :** WPT Charging with Peak Pro + USB Cable (Type C) (Charging from Notebook)



Site : 03CH07-HY

Condition : 15.209 LIMIT LINE 3m LOOP\_ANT(H)\_100315 HORIZONTAL

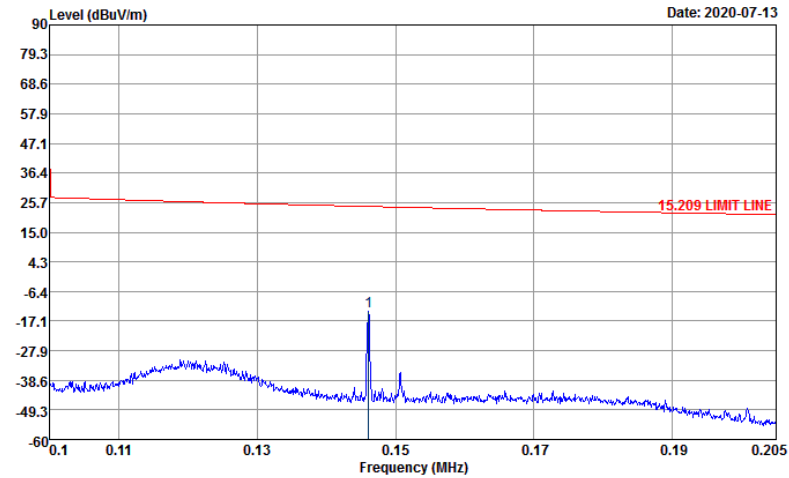
|   | Freq | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | A/Pos | T/Pos | Remark      |
|---|------|--------|---------------|---------------|-----------------------------|---------------|-------|-------|-------------|
|   | MHz  | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB    | cm    | deg         |
| 1 | 0.15 | -13.25 | -37.51        | 24.26         | 47.88                       | 18.67         | 0.20  | 100   | 143 Average |



Site : 03CH07-HY

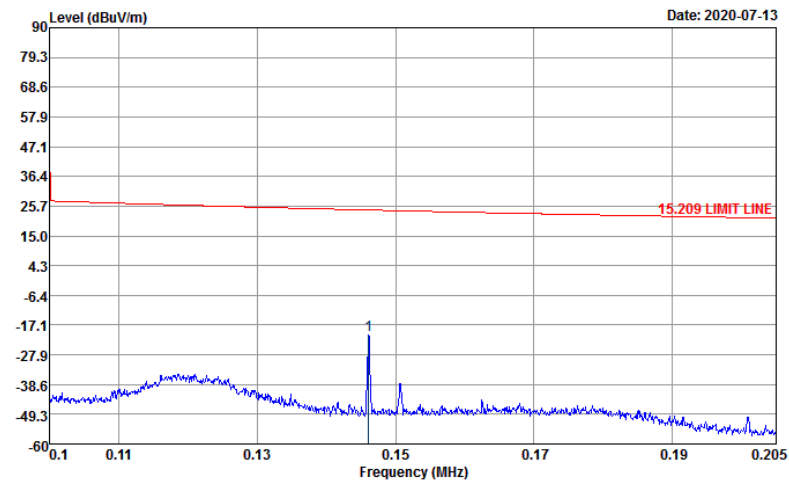
Condition : 15.209 LIMIT LINE 3m LOOP\_ANT(V)\_100315 VERTICAL

|   | Freq | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | A/Pos | T/Pos | Remark      |
|---|------|--------|---------------|---------------|-----------------------------|---------------|-------|-------|-------------|
|   | MHz  | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB    | cm    | deg         |
| 1 | 0.15 | -20.52 | -44.78        | 24.26         | 40.61                       | 18.67         | 0.20  | 100   | 248 Average |

**Test Mode :** WPT Charging with Peak Pro + USB Cable (Type C) (Charging from Adapter)


Site : 03CH07-HY  
Condition : 15.209 LIMIT LINE 3m LOOP\_ANT(H)\_100315 HORIZONTAL

|   | Freq | Level  | Over   | Limit | ReadAntenna | Cable  | A/Pos | T/Pos | Remark      |
|---|------|--------|--------|-------|-------------|--------|-------|-------|-------------|
|   | MHz  | dBuV/m | Limit  | Line  | Level       | Factor | Loss  | cm    | deg         |
| 1 | 0.15 | -13.43 | -37.74 | 24.31 | 47.70       | 18.67  | 0.20  | 100   | 151 Average |

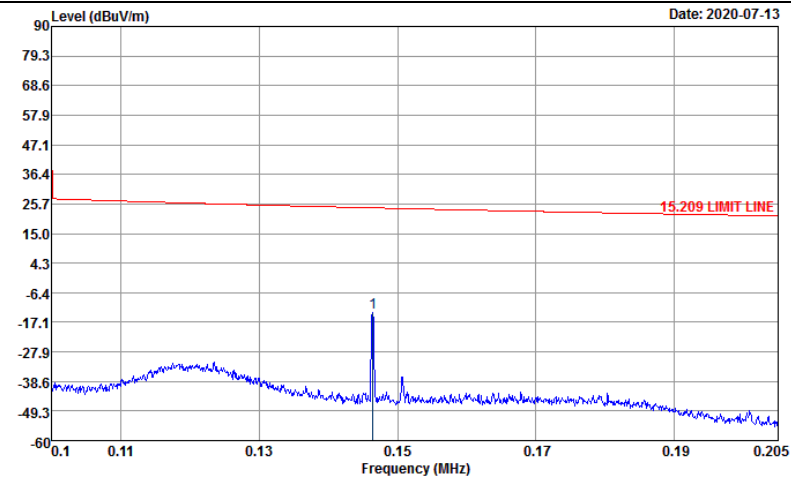


Site : 03CH07-HY  
Condition : 15.209 LIMIT LINE 3m LOOP\_ANT(V)\_100315 VERTICAL

|   | Freq | Level  | Over   | Limit | ReadAntenna | Cable  | A/Pos | T/Pos | Remark      |
|---|------|--------|--------|-------|-------------|--------|-------|-------|-------------|
|   | MHz  | dBuV/m | Limit  | Line  | Level       | Factor | Loss  | cm    | deg         |
| 1 | 0.15 | -20.69 | -45.00 | 24.31 | 40.44       | 18.67  | 0.20  | 100   | 261 Average |



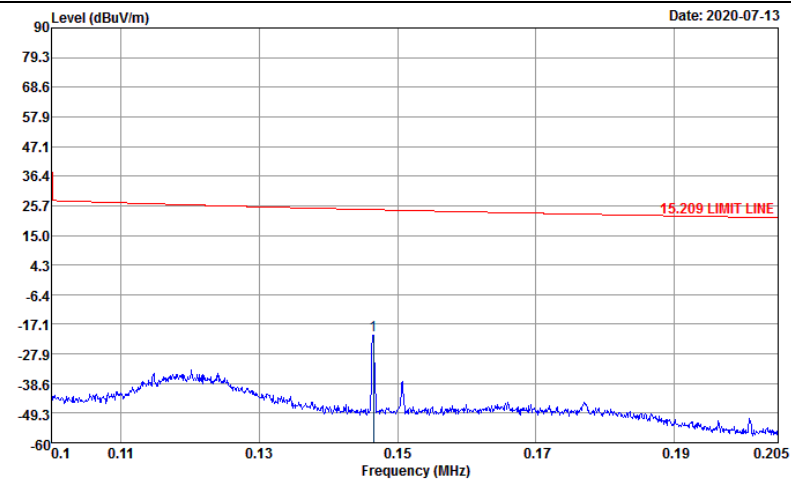
Test Mode : WPT Charging with Peak Pro



Site : 03CH07-HY

Condition : 15.209 LIMIT LINE 3m LOOP\_ANT(H)\_100315 HORIZONTAL

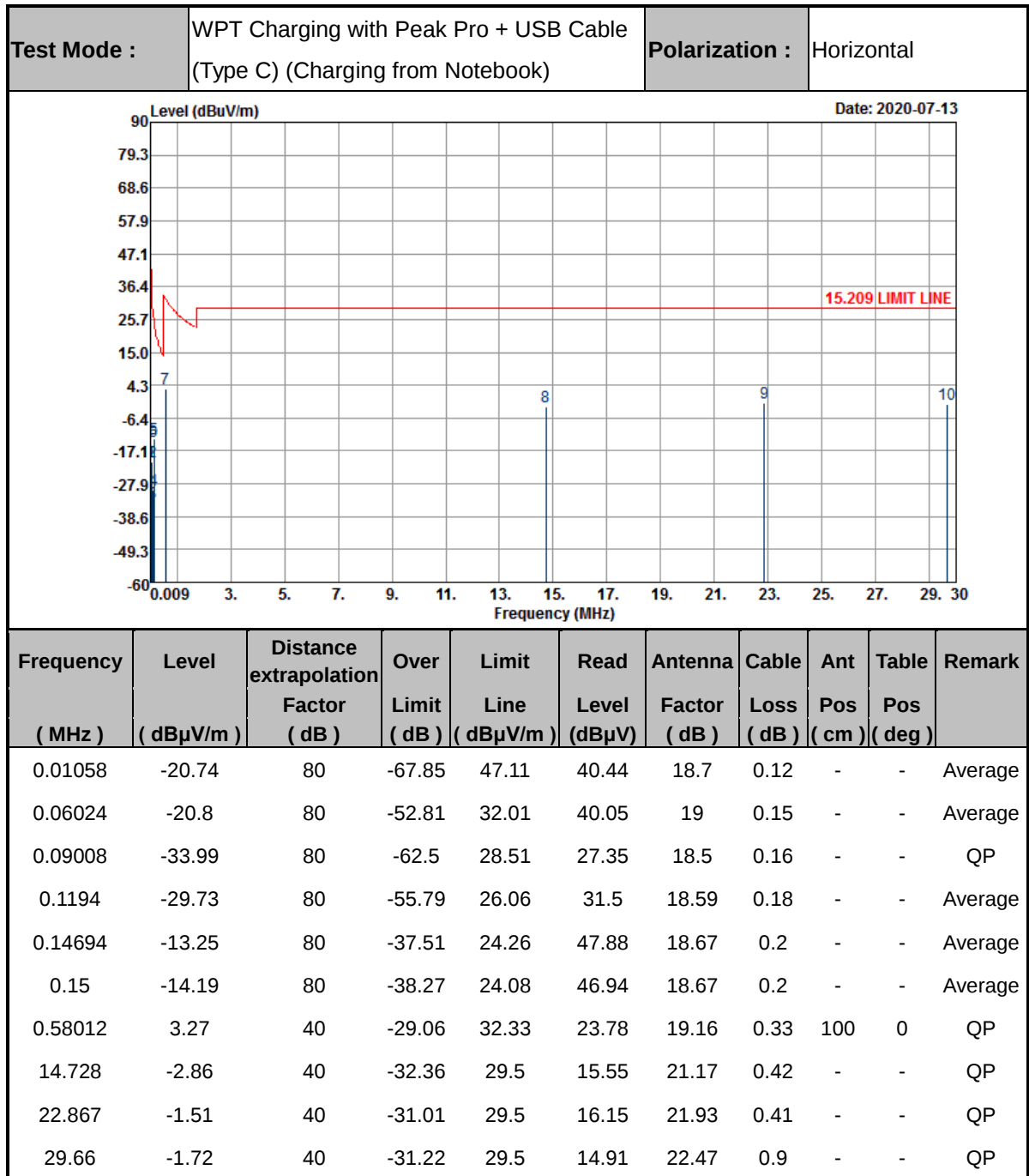
|   | Freq | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | A/Pos | T/Pos | Remark      |
|---|------|--------|---------------|---------------|-----------------------------|---------------|-------|-------|-------------|
|   | MHz  | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB    | cm    | deg         |
| 1 | 0.15 | -13.68 | -37.97        | 24.29         | 47.45                       | 18.67         | 0.20  | 100   | 185 Average |

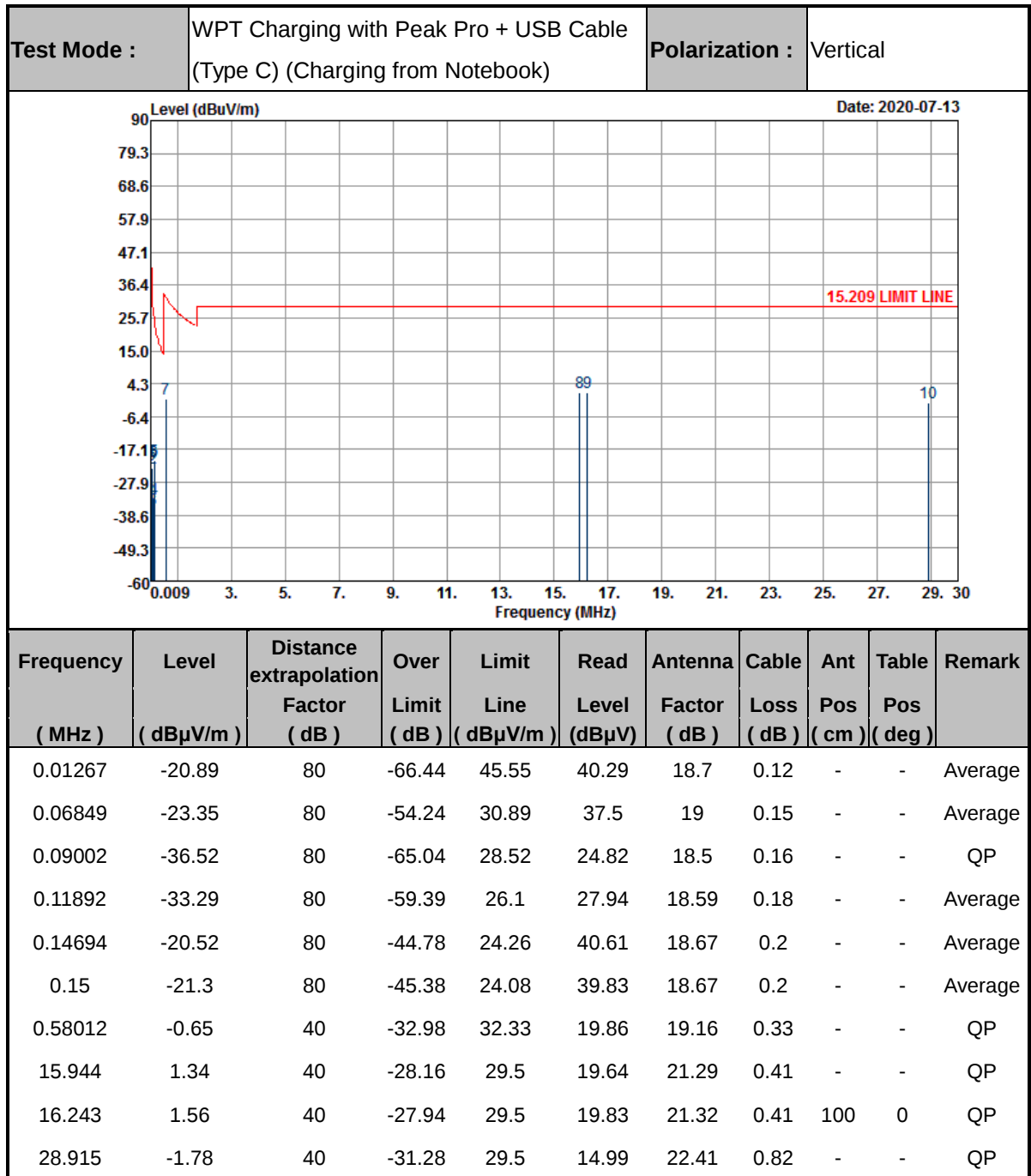


Site : 03CH07-HY

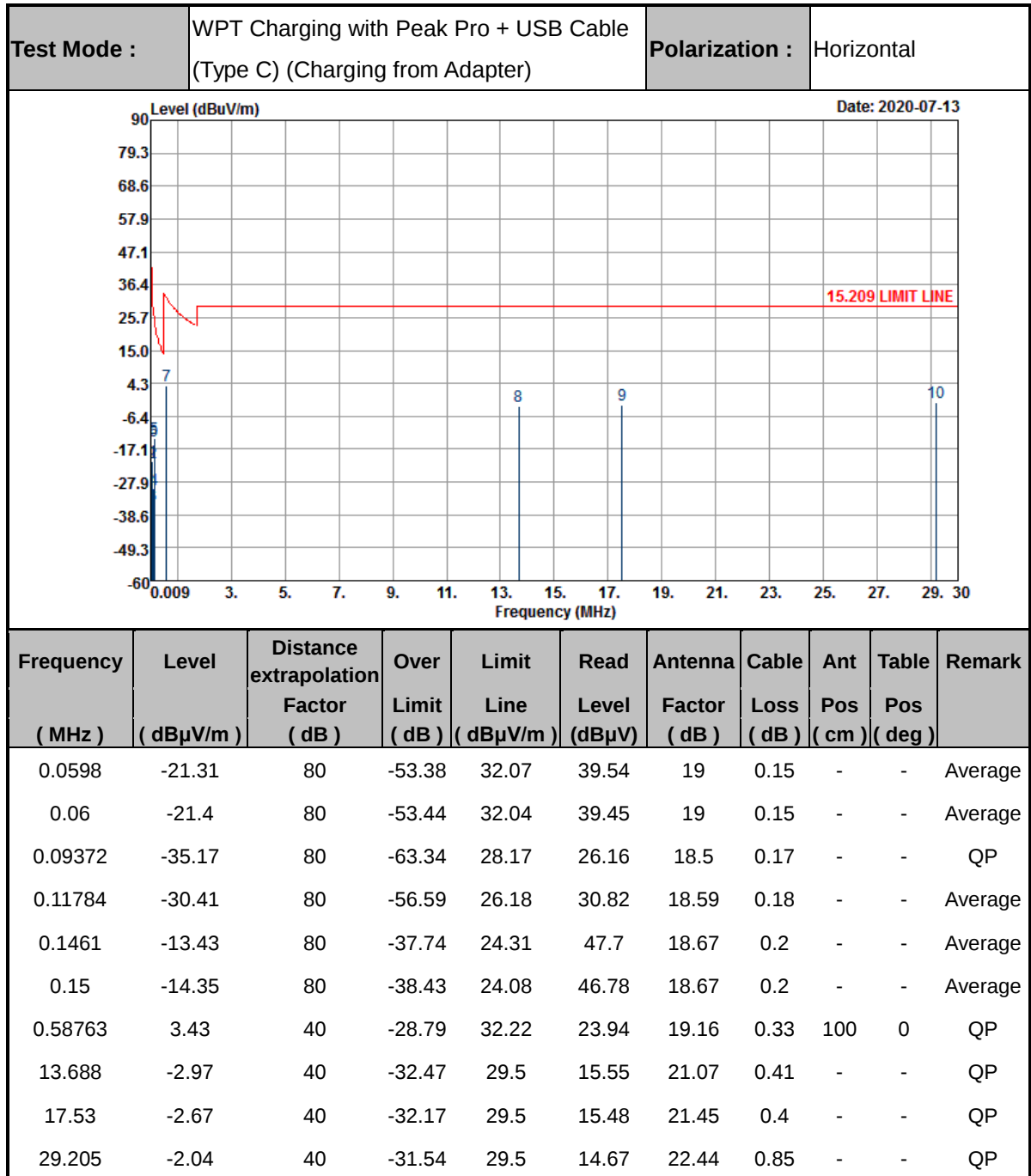
Condition : 15.209 LIMIT LINE 3m LOOP ANT(V) 100315 VERTICAL

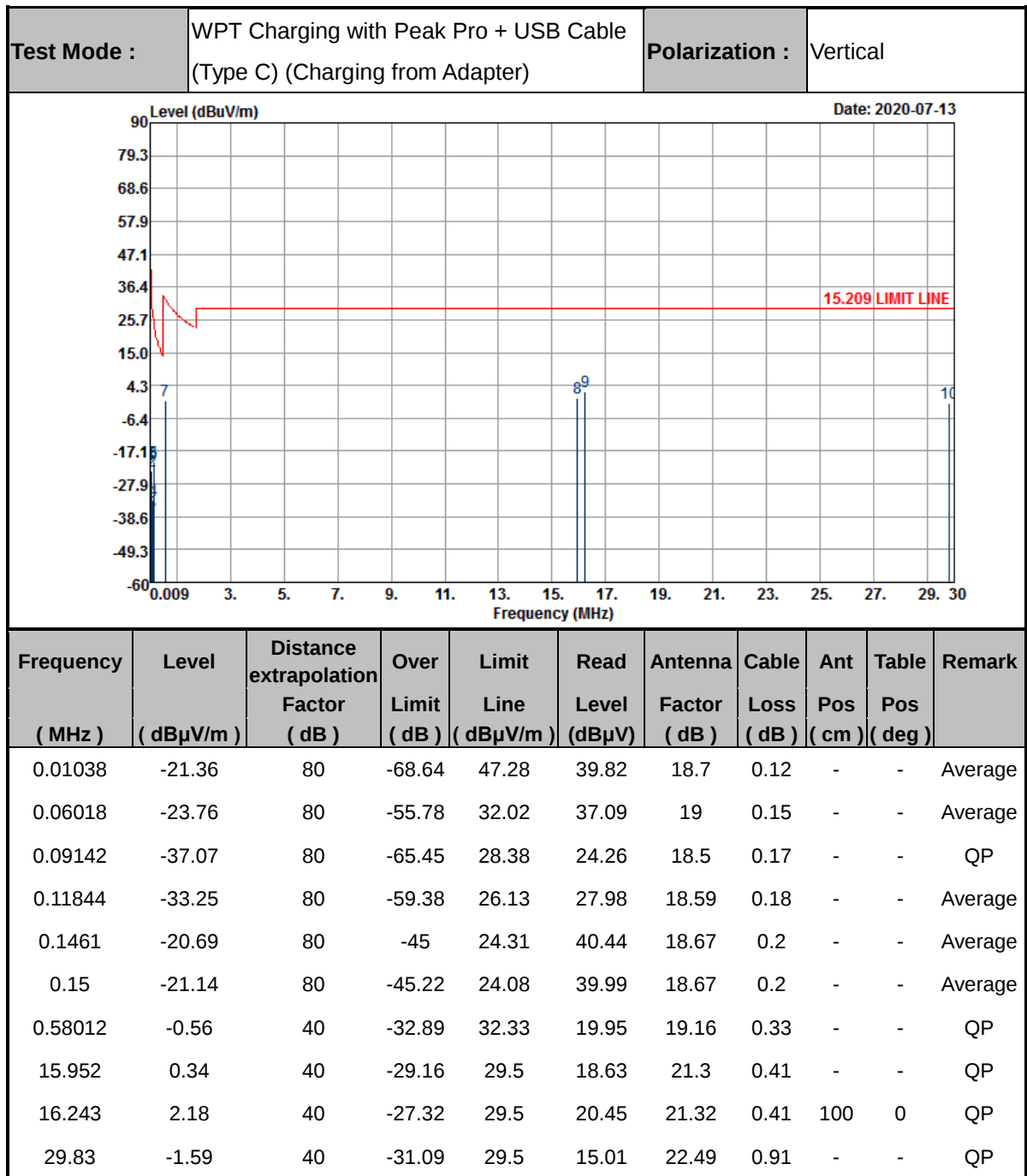
|   | Freq | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | A/Pos | T/Pos | Remark      |
|---|------|--------|---------------|---------------|-----------------------------|---------------|-------|-------|-------------|
|   | MHz  | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB    | cm    | deg         |
| 1 | 0.15 | -21.16 | -45.45        | 24.29         | 39.97                       | 18.67         | 0.20  | 100   | 266 Average |

**C2.Results of Radiated Spurious Emissions (9 kHz~30MHz)**


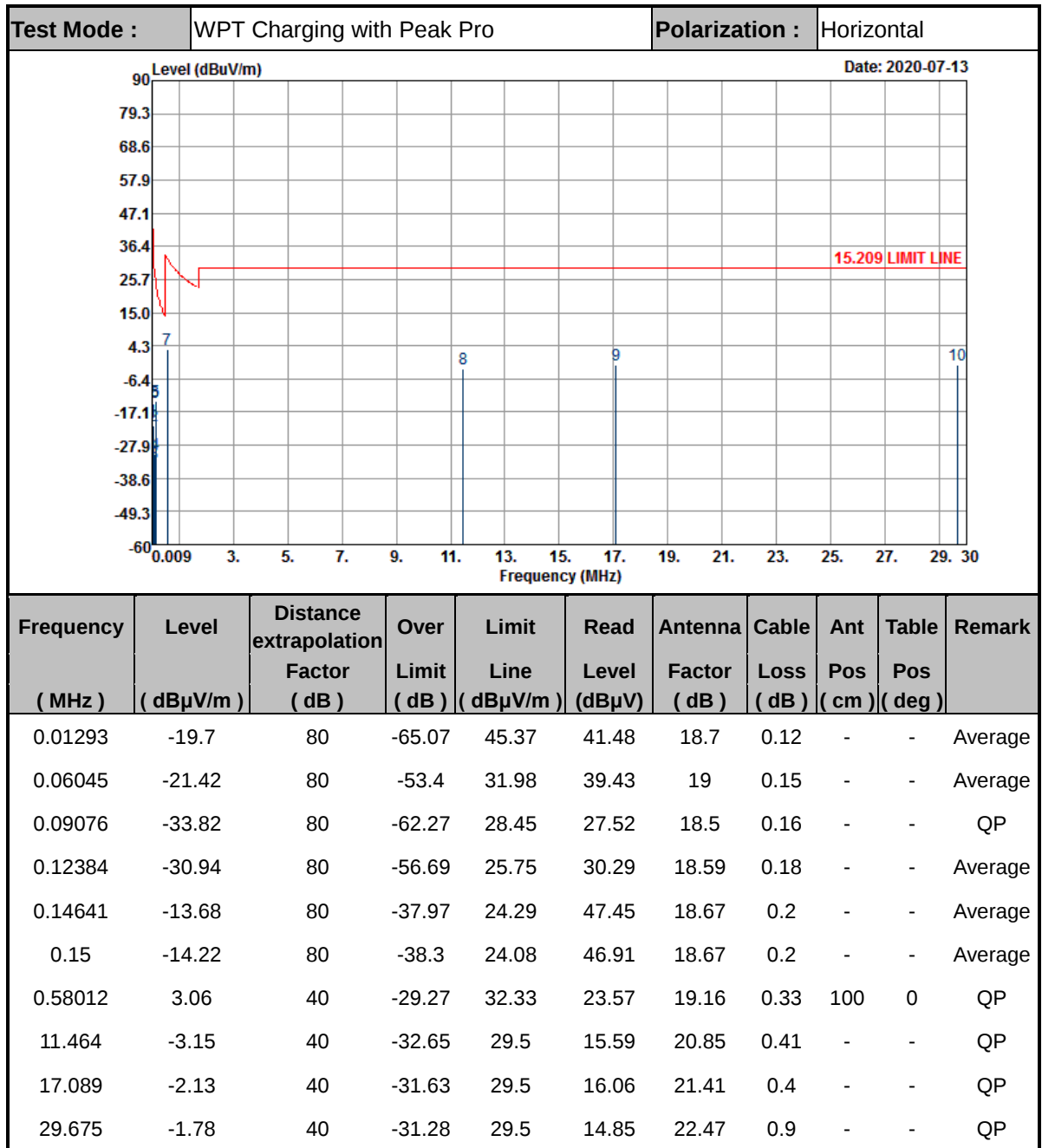

**Note:**

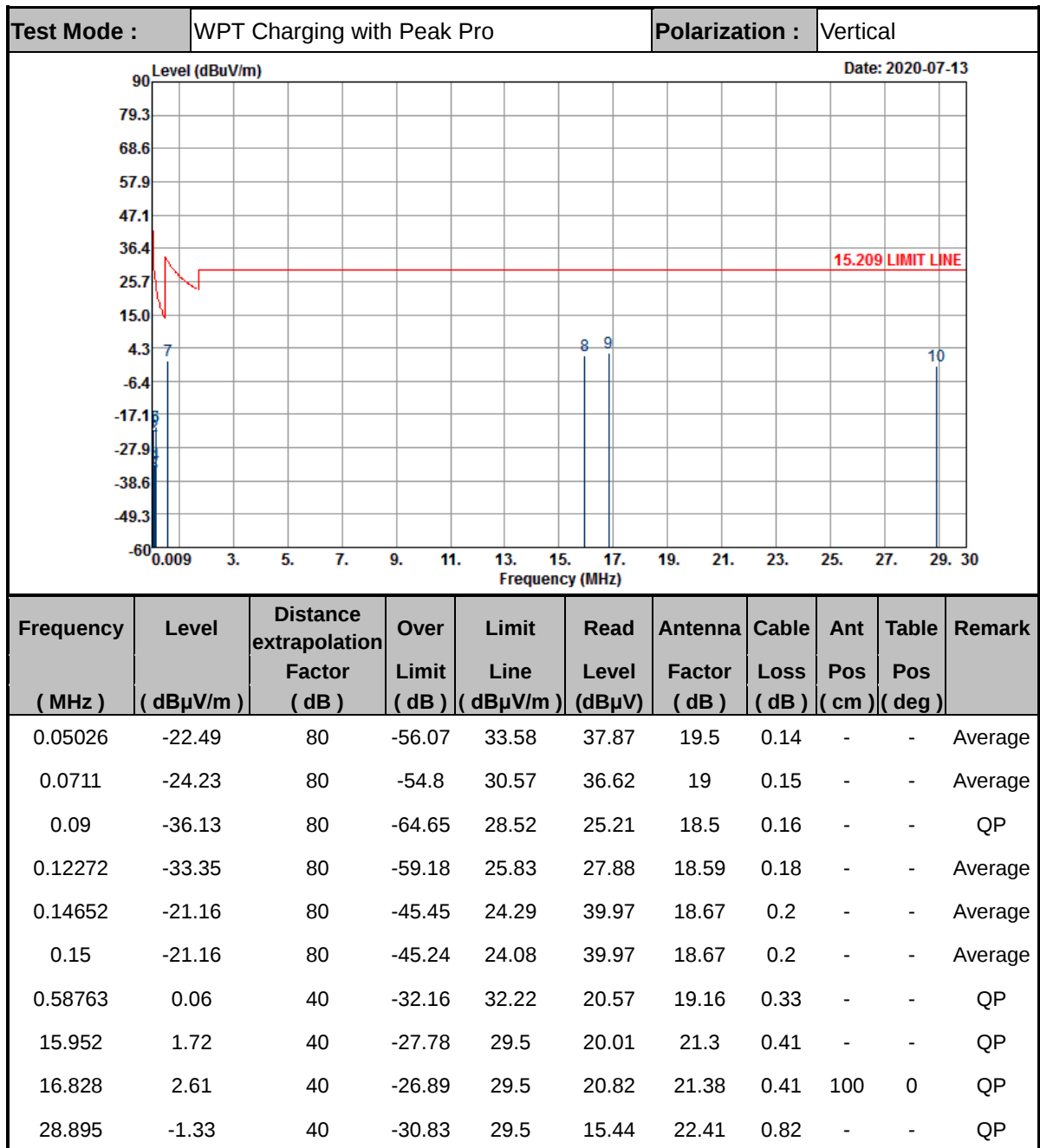
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Limit line = specific limits (dBμV) + distance extrapolation factor.



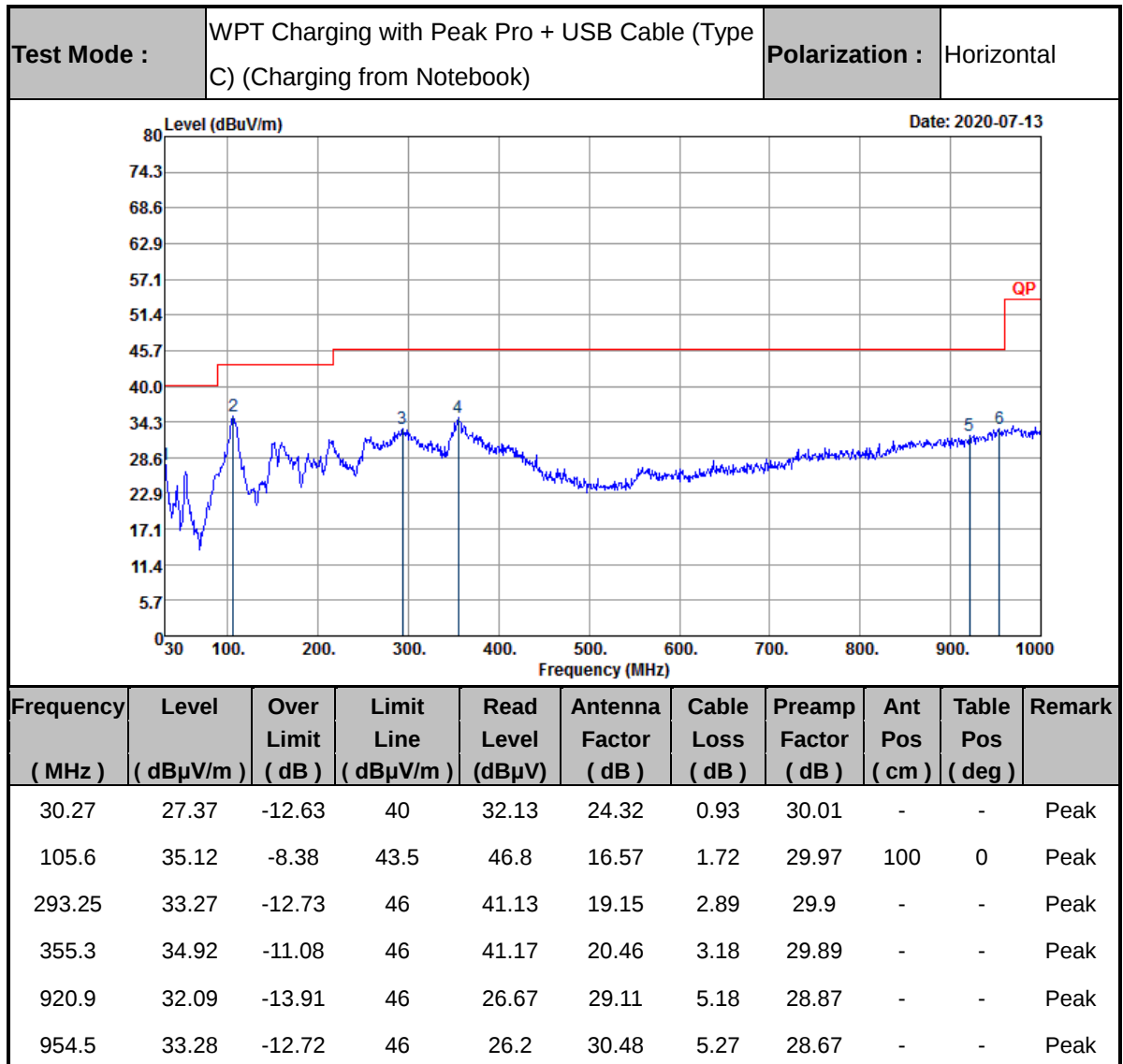

**Note:**

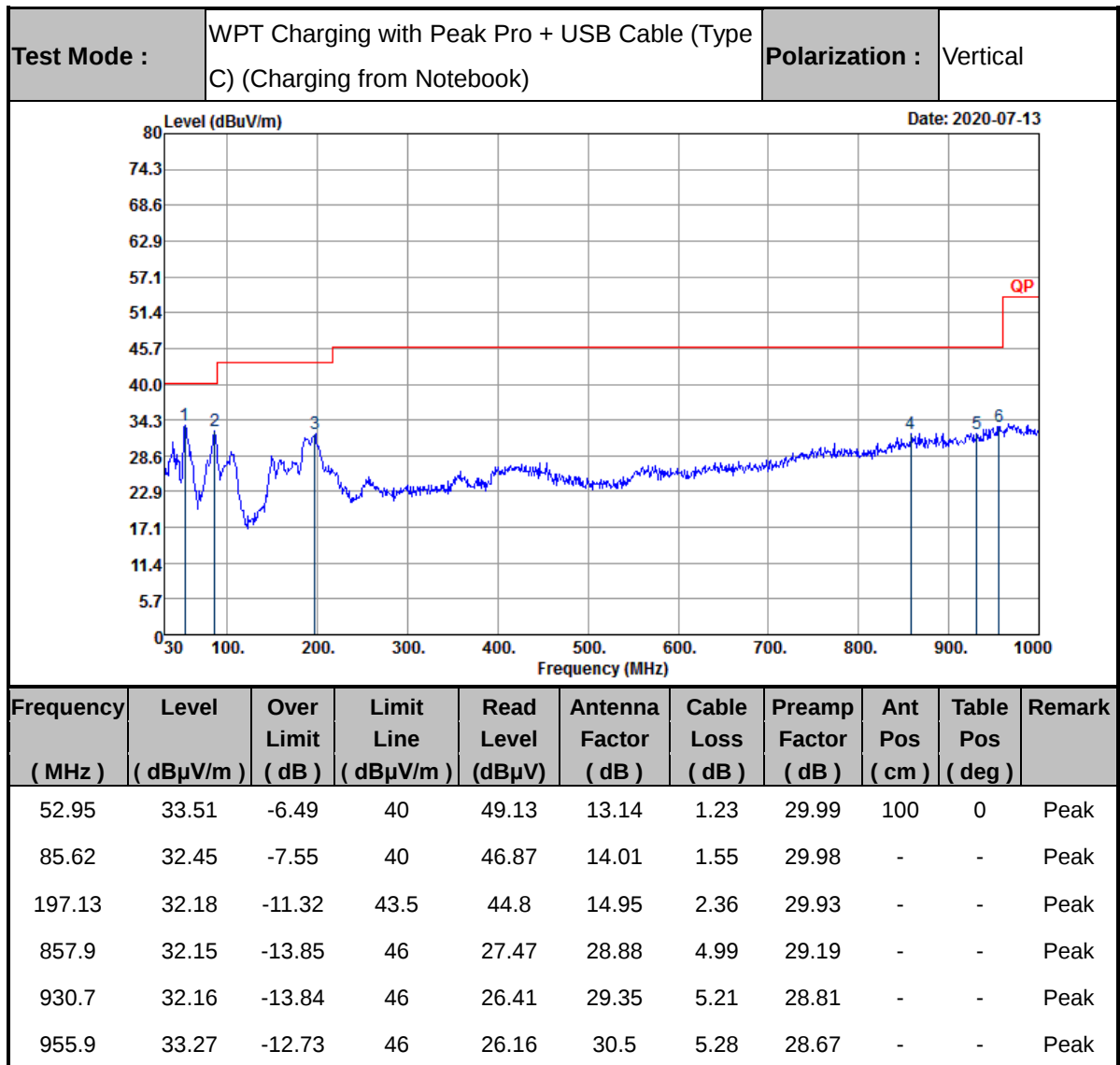
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Limit line = specific limits (dBμV) + distance extrapolation factor.



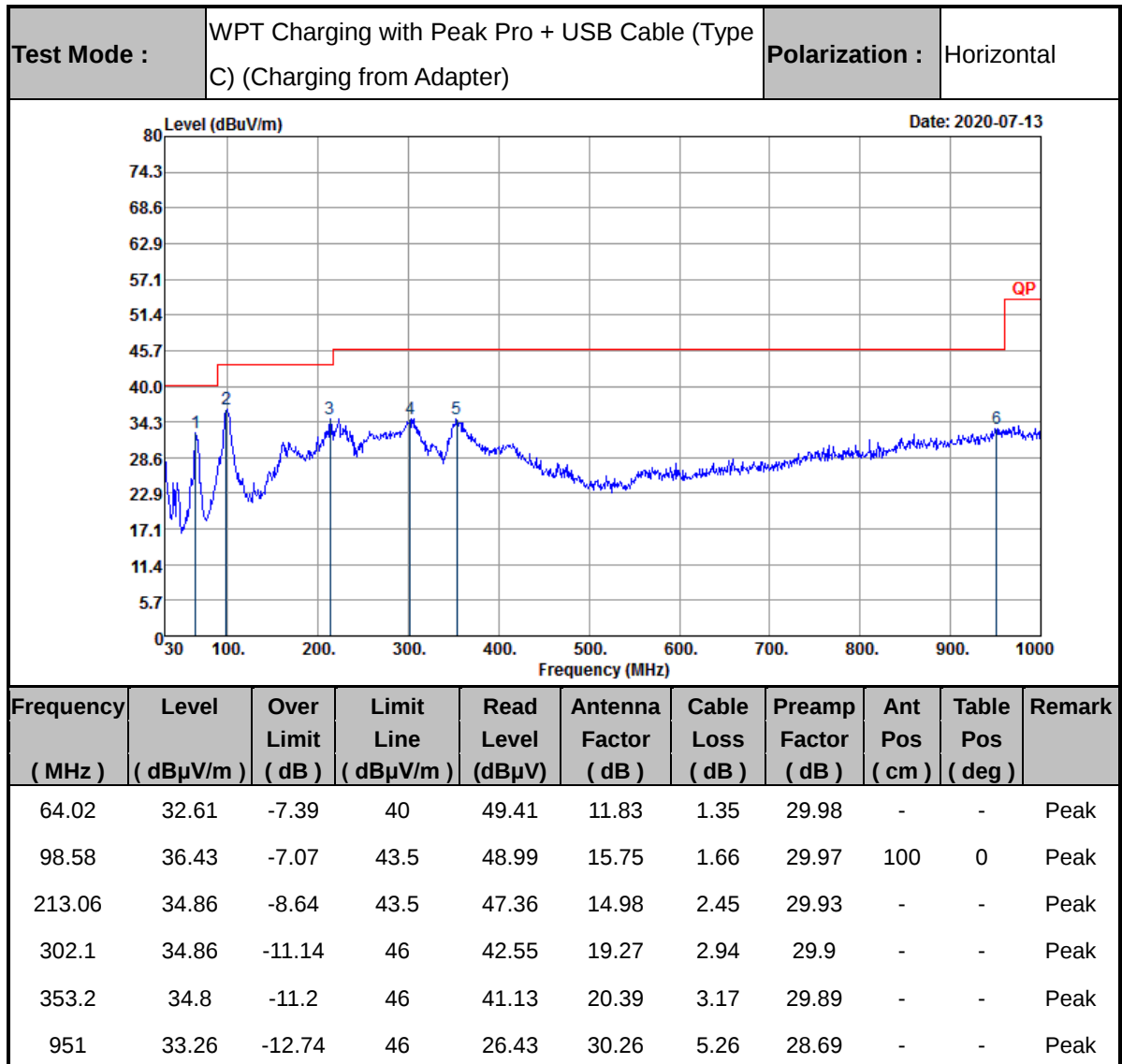

**Note:**

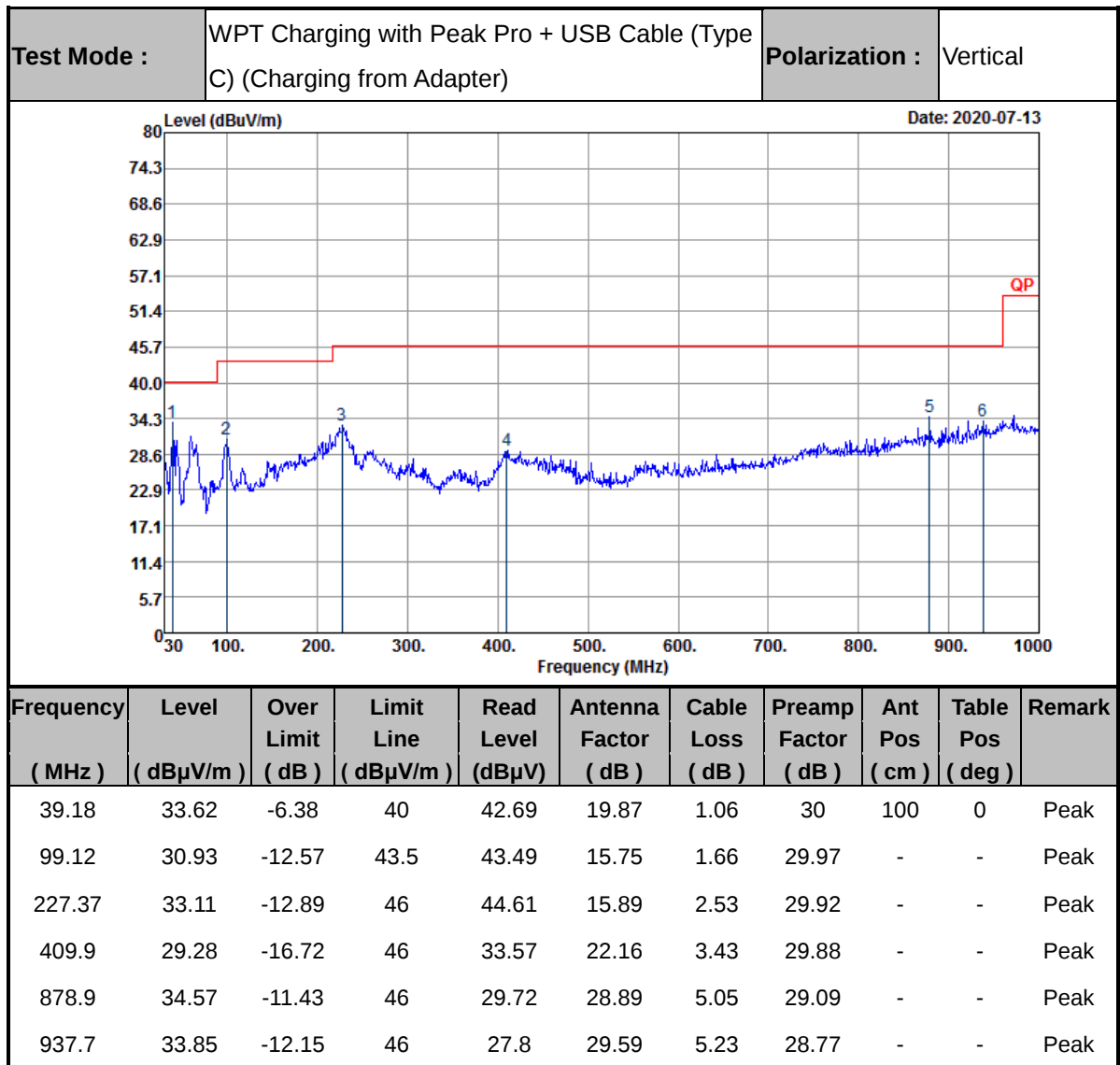
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);
3. Limit line = specific limits (dBμV) + distance extrapolation factor.

**C3. Results of Radiated Spurious Emissions (30MHz~1GHz)**


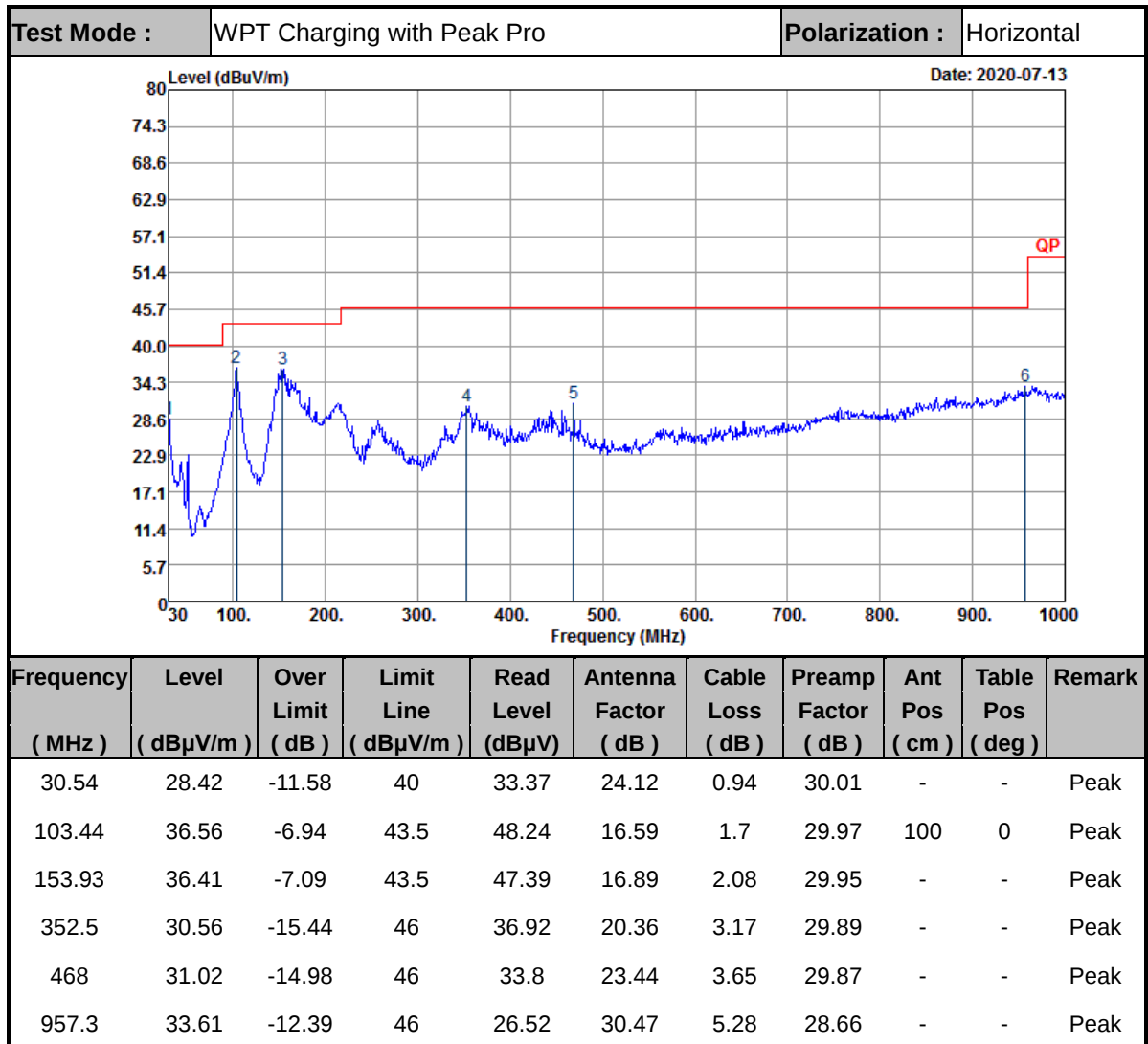

**Note:**

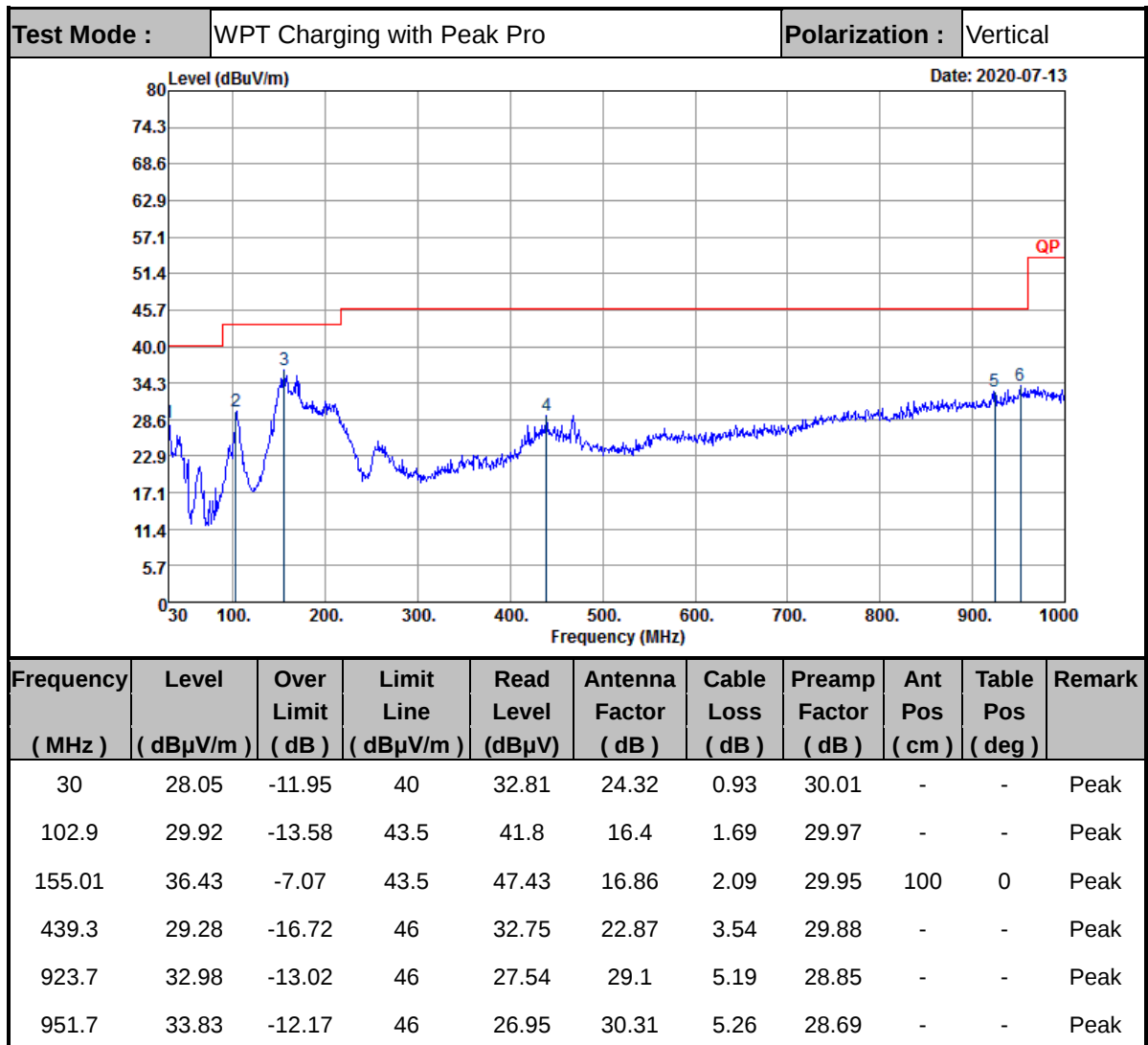
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.




**Note:**

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.




**Note:**

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.