



# TEST REPORT

No.I22N02494-BLE

for

Honor Device Co., Ltd.

Smart Phone

Model Name: CRT-LX3

with

Hardware Version: HL3CRTM

Software Version: 6.1.0.90(C900E21R1P2)

FCC ID: 2AYGCCRT-LX3

Issued Date: 2022-12-09

**Designation Number:** CN1210

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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No.I22N02494-BLE

## **REPORT HISTORY**

| <b>Report Number</b> | <b>Revision</b> | <b>Description</b> | <b>Issue Date</b> |
|----------------------|-----------------|--------------------|-------------------|
| I22N0-2494-BLE       | Rev.0           | 1st edition        | 2022-12-09        |

Note: the latest revision of the test report supersedes all previous versions.

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## 1. Summary of Test Report

### 1.1. Test Items

|                     |                        |
|---------------------|------------------------|
| Description         | Smart Phone            |
| Model Name          | CRT-LX3                |
| Applicant's name    | Honor Device Co., Ltd. |
| Manufacturer's Name | Honor Device Co., Ltd. |

### 1.2. Test Standards

FCC Part15-2021; ANSI C63.10-2013.

### 1.3. Test Result

**Pass**

Please refer to "5.2. Test Results"

### 1.4. Testing Location

Address: EMC Laboratory, Building G, Shenzhen International Innovation Center, No.1006  
Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

### 1.5. Project data

Testing Start Date: 2022-12-01  
Testing End Date: 2022-12-09

### 1.6. Signature

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Liu Xiangzhou  
(Prepared this test report)

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Liang Yong  
(Reviewed this test report)

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Cao Junfei  
(Approved this test report)



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Honor Device Co., Ltd.  
Address: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli  
West Road, Xiangmihu Street, Futian District, Shenzhen, P.R.China  
Contact Person Li Ming  
E-Mail liming136@hihonor.com  
Telephone: 0755-61886688  
Fax: /

### **2.2. Manufacturer Information**

Company Name: Honor Device Co., Ltd.  
Address: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli  
West Road, Xiangmihu Street, Futian District, Shenzhen, P.R.China  
Contact Person Li Ming  
E-Mail liming136@hihonor.com  
Telephone: 0755-61886688  
Fax: /



### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

|                              |                              |
|------------------------------|------------------------------|
| Description                  | Smart Phone                  |
| Model Name                   | CRT-LX3                      |
| Frequency Range              | ISM 2400MHz~2483.5MHz        |
| Equipment type               | Bluetooth® Low Energy        |
| Type of Modulation           | GFSK                         |
| PHY                          | LE 1M/2M                     |
| Number of Channels           | 40                           |
| Antenna Type                 | Integrated antenna           |
| Power Supply                 | 3.89V DC by Battery          |
| FCC ID                       | 2AYGCCRT-LX3                 |
| Condition of EUT as received | No abnormality in appearance |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

#### **3.2. Internal Identification of EUT used during the test**

| EUT ID* | SN or IMEI      | HW Version | SW Version                | Date of Receipt |
|---------|-----------------|------------|---------------------------|-----------------|
| UT04aa  | 866902060024650 | HL3CRTM    | 6.1.0.90(C900E21R1<br>P2) | 2022-12-01      |

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE used during the test**

| AE No.          | Description                                       | AE ID* |
|-----------------|---------------------------------------------------|--------|
| AE1             | Battery                                           |        |
| AE2             | Adapter                                           |        |
| AE3             | Data Cable                                        |        |
| AE4             | Headset                                           |        |
| AE5             | Earphone, USB Type-C to 3.5mm Adapter<br>Assembly |        |
| AE1-1           |                                                   |        |
| Model           | HB416594EGW                                       |        |
| Manufacturer    | Honor Device Co., Ltd.(SCUD)                      |        |
| Capacity        | 4400mAh                                           |        |
| Nominal Voltage | 3.89 V                                            |        |
| AE1-2           |                                                   |        |
| Model           | HB416594EGW                                       |        |
| Manufacturer    | Honor Device Co., Ltd.(Desay)                     |        |
| Capacity        | 4400mAh                                           |        |
| Nominal Voltage | 3.89 V                                            |        |



|              |                                          |
|--------------|------------------------------------------|
| AE2-1        |                                          |
| Model        | HN-100225E00                             |
| Manufacturer | Honor Device Co., Ltd. (Huntkey/Salcomp) |
| AE2-2        |                                          |
| Model        | HN-100225U00                             |
| Manufacturer | Honor Device Co., Ltd. (Huntkey/Salcomp) |
| AE2-3        |                                          |
| Model        | HW-100225E00                             |
| Manufacturer | Honor Device Co., Ltd. (Huntkey)         |
| AE2-4        |                                          |
| Model        | HW-100225U00                             |
| Manufacturer | Honor Device Co., Ltd. (Huntkey)         |
| AE2-5        |                                          |
| Model        | HW-100225B00                             |
| Manufacturer | Honor Device Co., Ltd. (Huntkey)         |
| AE2-6        |                                          |
| Model        | HN-100225B00                             |
| Manufacturer | Honor Device Co., Ltd. (Huntkey/Salcomp) |
| AE3-1        |                                          |
| Model        | CUDU01B-HC451-EH                         |
| Manufacturer | 04072295(FF)                             |
| AE3-2        |                                          |
| Model        | AU2-CRO013HF                             |
| Manufacturer | 04072295(LJ)                             |
| AE3-3        |                                          |
| Model        | L125UC007-CS-H                           |
| Manufacturer | 04072295(LX)                             |
| AE3-4        |                                          |
| Model        | 2120-00001-0                             |
| Manufacturer | 04072295(MG)                             |
| AE3-5        |                                          |
| Model        | RY0002                                   |
| Manufacturer | 04072295(NB)                             |
| AE4-1        |                                          |
| Model        | 1331-3301-6001-TC-347                    |
| Manufacturer | 22070347 (QC)                            |
| AE4-2        |                                          |
| Model        | MEND1532B528C00                          |
| Manufacturer | 22040339 (LC)                            |
| AE4-3        |                                          |
| Model        | 1293-3283-3.5MM-339                      |
| Manufacturer | 22040339 (QC)                            |
| AE5          |                                          |
| Model        | USB042020090AW7                          |



Manufacturer 22040348(LC)

\*AE ID: is used to identify the test sample in the lab internally.

AE: ancillary equipment.

AE2: The circuit boards of AE2-2 and AE2-6 are the same, the circuit boards of AE2-4 and AE2-5 are the same.

### **3.4. General Description**

The Equipment under Test (EUT) is a model of Smart Phone with integrated antenna and battery.

It consists of normal options: Battery, Adapter, Data Cable, Headset.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.



## **4. Reference Documents**

### **4.1. Documents supplied by applicant**

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

### **4.2. Reference Documents for testing**

The following documents listed in this section are referred for testing.

| <b>Reference</b> | <b>Title</b>                                                                                                                                                                                                              | <b>Version</b> |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| FCC Part 15      | FCC CFR 47, Part 15, Subpart C:<br>15.205 Restricted bands of operation;<br>15.209 Radiated emission limits, general requirements;<br>15.247 Operation within the bands 902–928MHz,<br>2400–2483.5 MHz, and 5725–5850 MHz | 2021           |
| ANSI C63.10      | American National Standard of Procedures for Compliance<br>Testing of Unlicensed Wireless Devices                                                                                                                         | 2013           |

## 5. Test Results

### 5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

### 5.2. Test Results

| No | Test cases                               | Sub-clause of Part 15C | Verdict  |
|----|------------------------------------------|------------------------|----------|
| 1  | Transmitter Spurious Emission - Radiated | 15.247, 15.205, 15.209 | <b>P</b> |
| 2  | AC Power line Conducted Emission         | 15.107, 15.207         | <b>P</b> |

See **ANNEX A** for details.

### 5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacture as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.

## 6. Measuring Apparatus Utilized

| No. | Equipment         | Model                 | Serial Number | Manufacturer    | Calibration Due date | Calibration Period |
|-----|-------------------|-----------------------|---------------|-----------------|----------------------|--------------------|
| 1   | Test Receiver     | ESR7                  | 101676        | Rohde & Schwarz | 2023-11-23           | 1 year             |
| 2   | BiLog Antenna     | 3142E                 | 0224831       | ETS-Lindgren    | 2024-05-27           | 3 years            |
| 3   | Horn Antenna      | 3117                  | 00066577      | ETS-Lindgren    | 2025-04-17           | 3 years            |
| 4   | Anechoic Chamber  | FACT3-2.0             | 1285          | ETS-Lindgren    | 2023-05-29           | 2 years            |
| 5   | Spectrum Analyzer | FSV40                 | 101192        | Rohde & Schwarz | 2023-01-12           | 1 year             |
| 6   | Loop Antenna      | HLA6120               | 35779         | TESEQ           | 2025-05-10           | 3 years            |
| 7   | Horn Antenna      | QSH-SL-1<br>8-26-S-20 | 17013         | Q-par           | 2023-01-06           | 3 years            |
| 8   | Test Receiver     | ESCI                  | 100702        | Rohde & Schwarz | 2023-01-12           | 1 year             |
| 9   | LISN              | ENV216                | 102067        | Rohde & Schwarz | 2023-07-14           | 1 year             |

### Test software

| No. | Equipment | Manufacturer    | Version  |
|-----|-----------|-----------------|----------|
| 2   | EMC32     | Rohde & Schwarz | 10.50.40 |

EUT is engineering software provided by the customer to control the transmitting signal.  
The EUT was programmed to be in continuously transmitting mode.

## 7. Laboratory Environment

**Shielded room** did not exceed following limits along the EMC testing:

|                          |                                              |
|--------------------------|----------------------------------------------|
| Temperature              | Min. = 15 °C, Max. = 35 °C                   |
| Relative humidity        | Min. = 20 %, Max. = 75 %                     |
| Shielding effectiveness  | 0.014MHz-1MHz > 60 dB; 1MHz-18000MHz > 90 dB |
| Electrical insulation    | > 2MΩ                                        |
| Ground system resistance | < 4Ω                                         |

**Anechoic chamber (FACT3-2.0)** did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Temperature                        | Min. = 15 °C, Max. = 35 °C                   |
| Relative humidity                  | Min. = 20 %, Max. = 75 %                     |
| Shielding effectiveness            | 0.014MHz-1MHz > 60 dB; 1MHz-18000MHz > 90 dB |
| Electrical insulation              | > 2MΩ                                        |
| Ground system resistance           | < 4Ω                                         |
| Normalised site attenuation (NSA)  | < ± 4 dB, 3 m distance, from 30 to 1000 MHz  |
| Voltage Standing Wave Ratio (VSWR) | ≤ 6 dB, from 1 to 18 GHz, 3 m distance       |
| Uniformity of field strength       | Between 0 and 6 dB, from 80 to 6000 MHz      |

## 8. Measurement Uncertainty

| Test Name                                | Uncertainty ( $k=2$ )                    |        |
|------------------------------------------|------------------------------------------|--------|
| Transmitter Spurious Emission - Radiated | $9\text{kHz} \leq f < 30\text{MHz}$      | 1.79dB |
|                                          | $30\text{MHz} \leq f < 1\text{GHz}$      | 4.86dB |
|                                          | $1\text{GHz} \leq f < 18\text{GHz}$      | 4.82dB |
|                                          | $18\text{GHz} \leq f \leq 40\text{GHz}$  | 2.90dB |
| AC Power line Conducted Emission         | $150\text{kHz} \leq f \leq 30\text{MHz}$ | 2.62dB |

## **ANNEX A: Detailed Test Results**

### **Test Configuration**

The measurement is made according to ANSI C63.10.

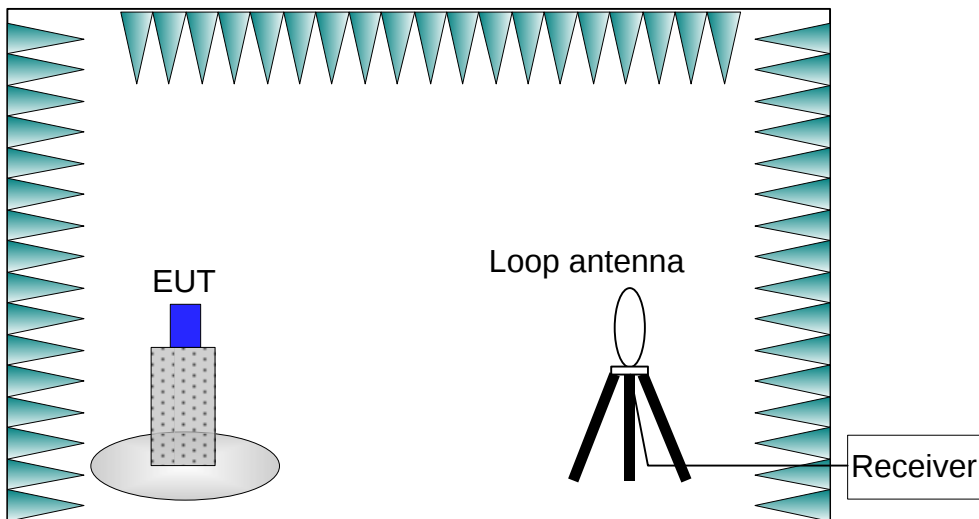
#### **1) Radiated Measurements**

##### **Test setup:**

##### **9kHz-30MHz:**

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below.

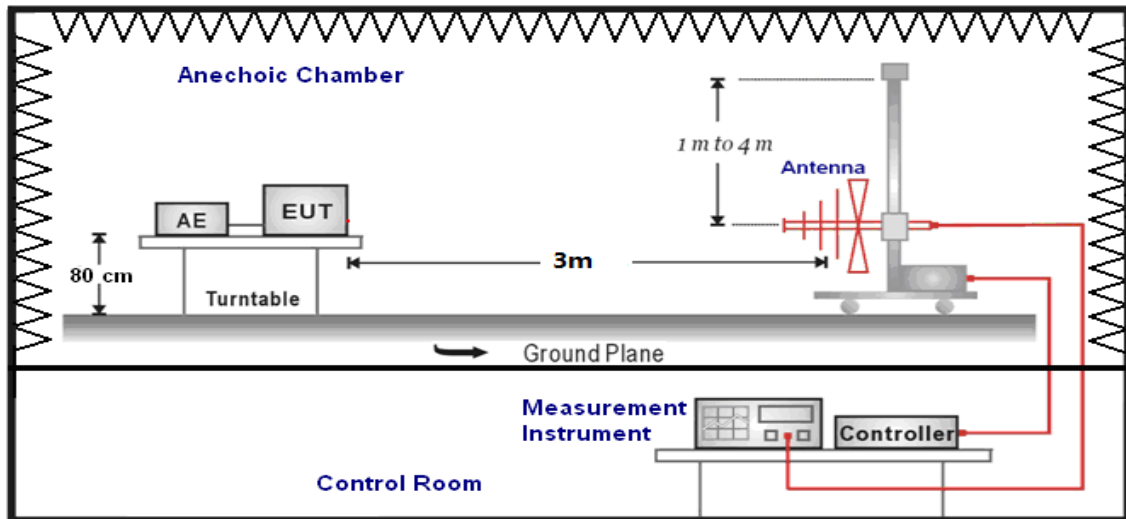
Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



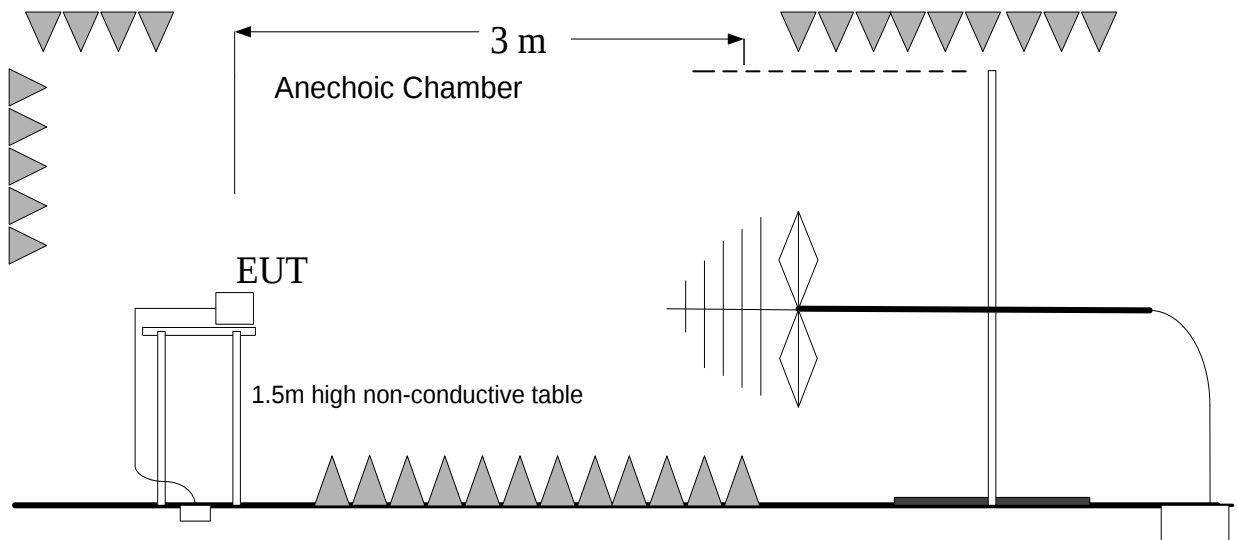
### 30MHz-26.5GHz:

The EUT are measured in a anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.

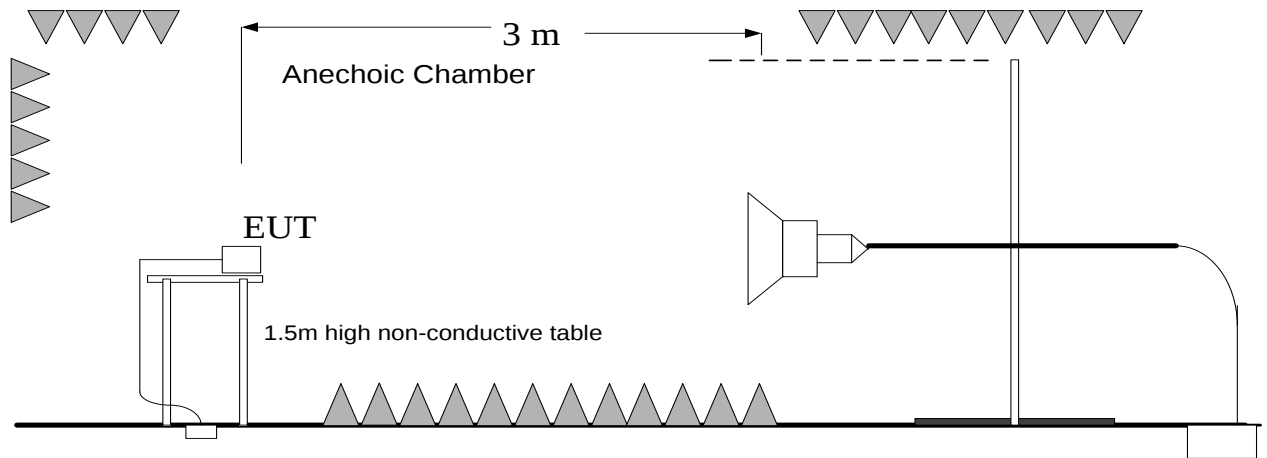
### 30MHz-1GHz:



### 1GHz-3GHz:

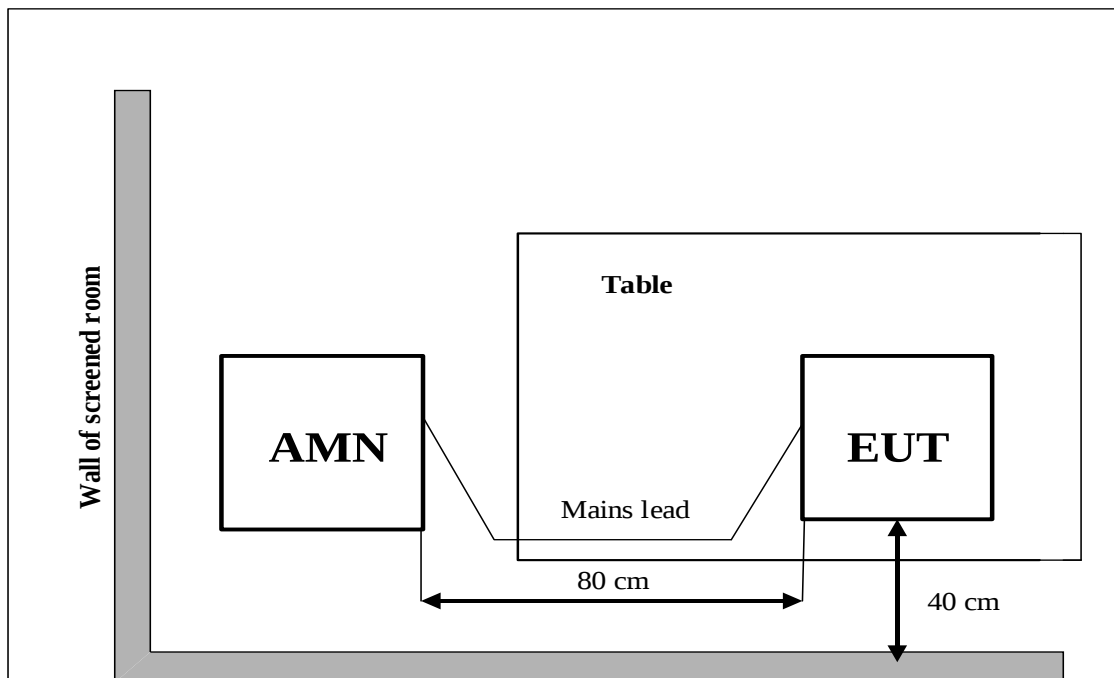


### 3GHz-26.5GHz:



### 2) AC Power line Conducted Emission Measurement

For Bluetooth LE, the EUT is working under test mode. The EUT is commanded to operate at maximum transmitting power.



## A.1 Transmitter Spurious Emission - Radiated

**Method of Measurement:** See ANSI C63.10-clause 11.11&11.12.

**Measurement Limit:**

| Standard                               | Limit (dBm)                   |
|----------------------------------------|-------------------------------|
| FCC 47 CFR Part 15.247, 15.205, 15.209 | 20dBm below peak output power |

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)).

**Limit in restricted band:**

| Frequency of emission (MHz) | Field strength(μV/m) | 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                            |

**Test Condition:**

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

| Frequency of emission (MHz) | RBW/VBW       | Sweep Time(s) |
|-----------------------------|---------------|---------------|
| 30-1000                     | 120kHz/300kHz | 5             |
| 1000-4000                   | 1MHz/3MHz     | 15            |
| 4000-18000                  | 1MHz/3MHz     | 40            |
| 18000-26500                 | 1MHz/3MHz     | 20            |

**Note:** According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band from 9kHz to 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic. The measurement results include the horizontal polarization and vertical polarization measurements. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

**Measurement Results:**

| Mode  | Frequency (MHz)       | Frequency Range     | Test Results | Conclusion |
|-------|-----------------------|---------------------|--------------|------------|
| LE 1M | 2402(CH0)             | 1 GHz ~18 GHz       | Fig.1        | <b>P</b>   |
|       | 2440(CH19)            | 1 GHz ~18 GHz       | Fig.2        | <b>P</b>   |
|       | 2480(CH39)            | 1 GHz ~18 GHz       | Fig.3        | <b>P</b>   |
|       | Restricted Band(CH0)  | 2.38 GHz ~ 2.45 GHz | Fig.4        | <b>P</b>   |
|       | Restricted Band(CH39) | 2.45 GHz ~ 2.5 GHz  | Fig.5        | <b>P</b>   |
|       | All channels          | 9 kHz ~30 MHz       | Fig.6        | <b>P</b>   |
|       |                       | 30 MHz ~1 GHz       | Fig.7        | <b>P</b>   |
|       |                       | 18 GHz ~ 26.5 GHz   | Fig.8        | <b>P</b>   |
| LE 2M | 2402(CH0)             | 1 GHz ~18 GHz       | Fig.9        | <b>P</b>   |
|       | 2440(CH19)            | 1 GHz ~18 GHz       | Fig.10       | <b>P</b>   |
|       | 2480(CH39)            | 1 GHz ~18 GHz       | Fig.11       | <b>P</b>   |
|       | Restricted Band(CH0)  | 2.38 GHz ~ 2.45 GHz | Fig.12       | <b>P</b>   |
|       | Restricted Band(CH39) | 2.45 GHz ~ 2.5 GHz  | Fig.13       | <b>P</b>   |
|       | All channels          | 9 kHz ~30 MHz       | Fig.14       | <b>P</b>   |
|       |                       | 30 MHz ~1 GHz       | Fig.15       | <b>P</b>   |
|       |                       | 18 GHz ~ 26.5 GHz   | Fig.16       | <b>P</b>   |

**Worst Case Result:**

For LE 1M:

CH19 (1-18GHz)

| Frequency (MHz) | MaxPeak (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----|--------------|
| 2975.357143     | 51.50            | 74.00          | 22.50       | H   | 6.8          |
| 5933.700000     | 47.68            | 74.00          | 26.32       | H   | 4.6          |
| 10282.285714    | 46.93            | 74.00          | 27.07       | V   | 8.5          |
| 14904.428572    | 52.03            | 74.00          | 21.97       | H   | 13.0         |
| 16867.714286    | 54.08            | 74.00          | 19.92       | H   | 18.0         |
| 17938.714286    | 54.07            | 74.00          | 18.93       | V   | 19.0         |

| Frequency (MHz) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Pol | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-----|--------------|
| 2975.357143     | 39.47            | 54.00          | 14.53       | H   | 6.8          |
| 5933.700000     | 35.61            | 54.00          | 18.39       | H   | 4.6          |
| 10282.285714    | 34.44            | 54.00          | 19.56       | V   | 8.5          |
| 14904.428572    | 38.92            | 54.00          | 15.08       | H   | 13.0         |
| 16867.714286    | 41.98            | 54.00          | 12.02       | H   | 18.0         |
| 17938.714286    | 42.66            | 54.00          | 11.34       | V   | 19.0         |



For LE 2M:

CH19 (1-18GHz)

| Frequency<br>(MHz) | MaxPeak<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) | Pol | Corr.<br>(dB/m) |
|--------------------|---------------------------|-------------------------|----------------|-----|-----------------|
| 2965.357143        | 51.85                     | 74.00                   | 22.15          | V   | 6.7             |
| 4665.900000        | 47.59                     | 74.00                   | 26.41          | H   | 4.6             |
| 10467.428572       | 47.62                     | 74.00                   | 26.38          | V   | 9.0             |
| 12459.857143       | 48.95                     | 74.00                   | 25.05          | H   | 11.4            |
| 16934.571429       | 54.73                     | 74.00                   | 19.27          | H   | 18.2            |
| 17919.428571       | 54.84                     | 74.00                   | 19.16          | V   | 18.9            |

| Frequency<br>(MHz) | Average<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) | Pol | Corr.<br>(dB/m) |
|--------------------|---------------------------|-------------------------|----------------|-----|-----------------|
| 2965.357143        | 39.51                     | 54.00                   | 14.49          | V   | 6.7             |
| 4665.900000        | 34.73                     | 54.00                   | 19.27          | H   | 4.6             |
| 10467.428572       | 35.88                     | 54.00                   | 19.12          | V   | 9.0             |
| 12459.857143       | 37.28                     | 54.00                   | 17.72          | H   | 11.4            |
| 16934.571429       | 42.39                     | 54.00                   | 11.61          | H   | 18.2            |
| 17919.428571       | 42.74                     | 54.00                   | 11.26          | V   | 18.9            |

**Note:**

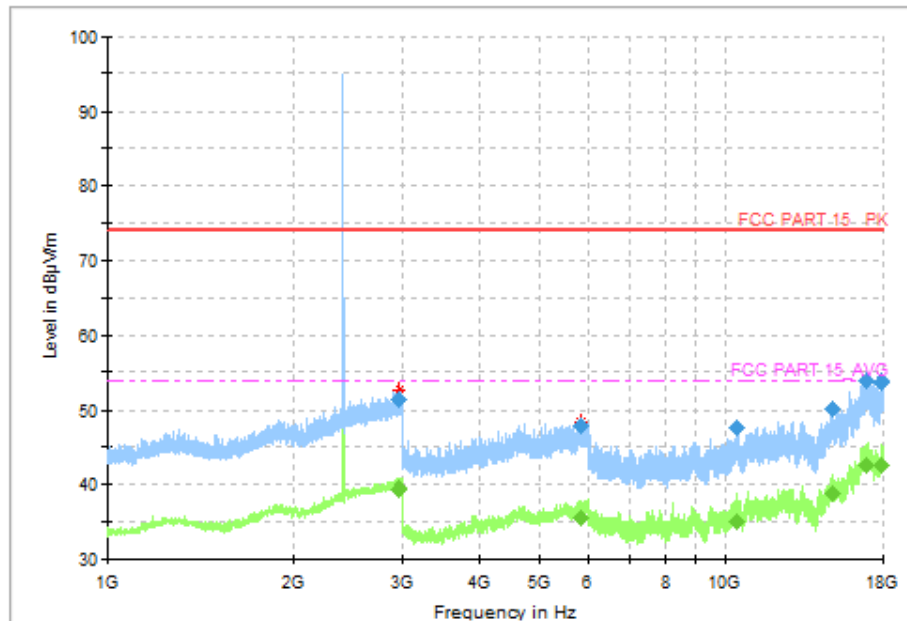
A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and Antenna Factor, the gain of the preamplifier, the cable loss.  $P_{Mea}$  is the field strength recorded from the instrument.

The measurement results are obtained as described below:

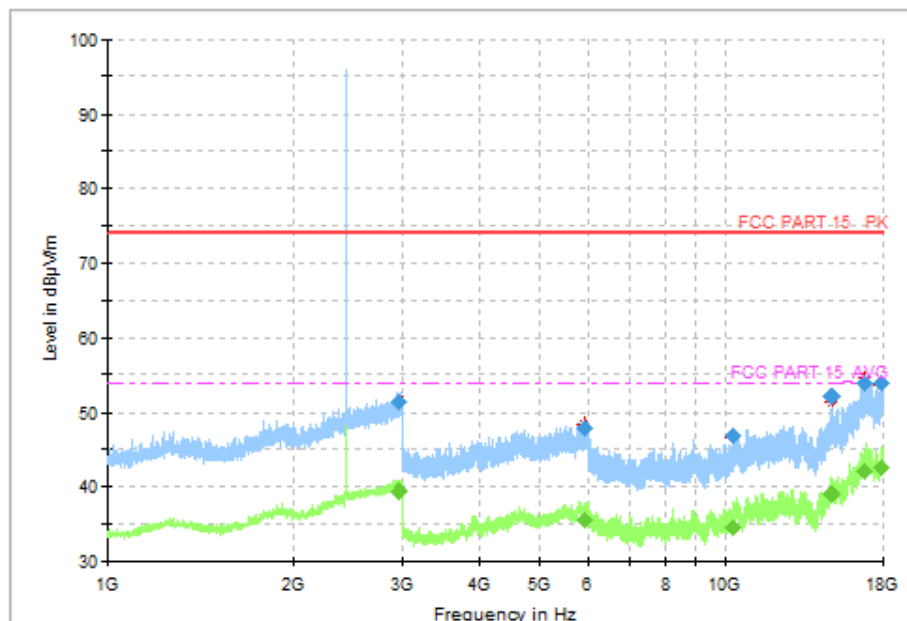
Result=  $P_{Mea}$  +Cable Loss +Antenna Factor-Gain of the preamplifier.

**See below for test graphs.**

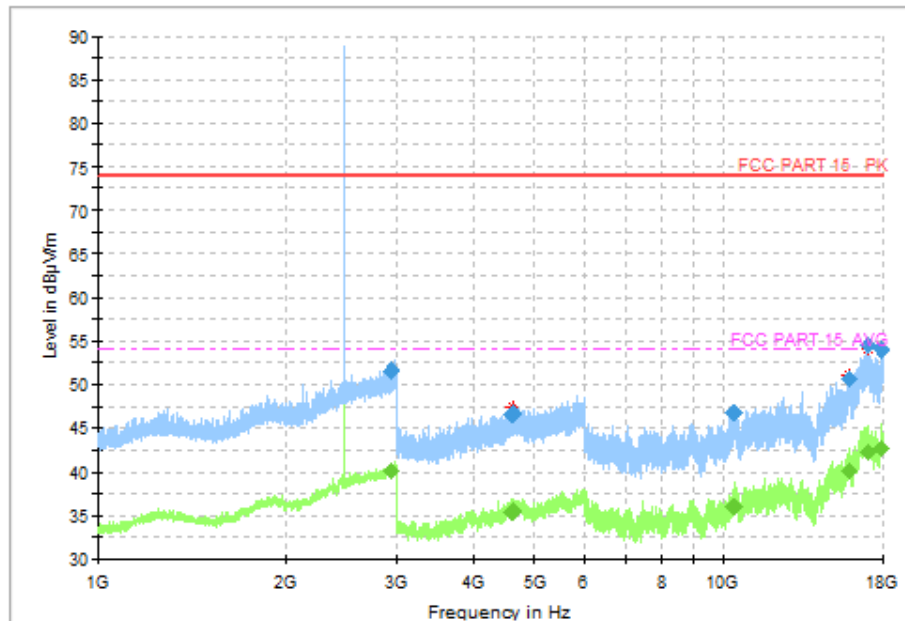
**Conclusion: Pass**



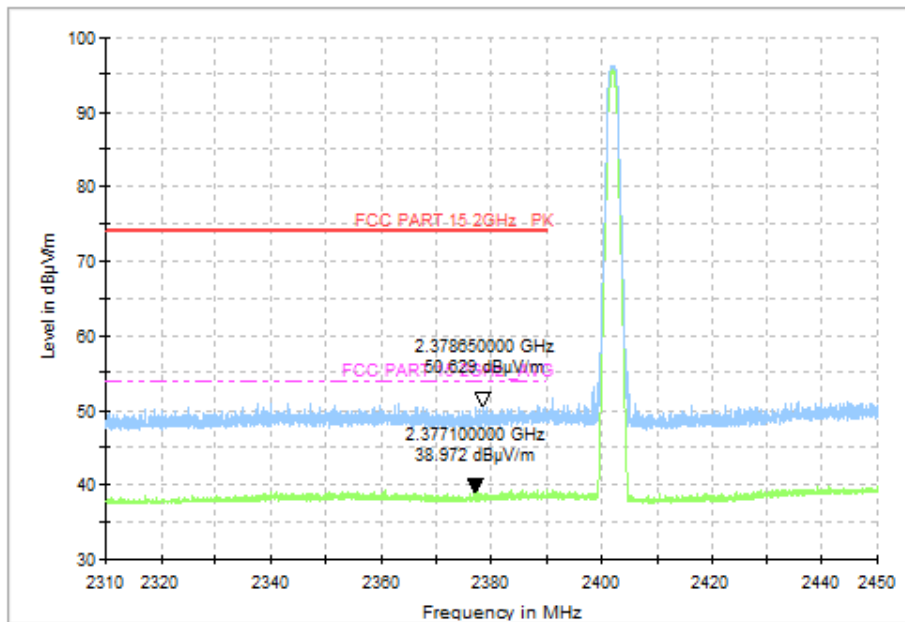
**Fig.1 Radiated Spurious Emission (CH0, 1GHz ~18GHz), LE 1M**



**Fig.2 Radiated Spurious Emission (CH19, 1GHz ~18GHz), LE 1M**



**Fig.3 Radiated Spurious Emission (CH39, 1GHz ~18GHz), LE 1M**



**Fig.4 Radiated Band Edges (CH0, 2.38GHz~2.45GHz), LE 1M**

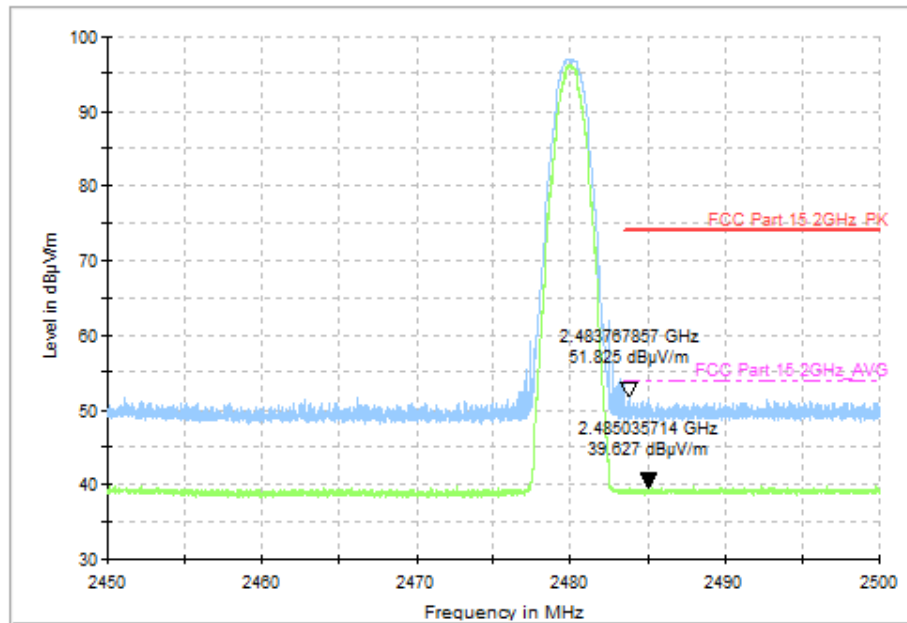


Fig.5 Radiated Band Edges (CH39, 2.45GHz~2.50GHz), LE 1M

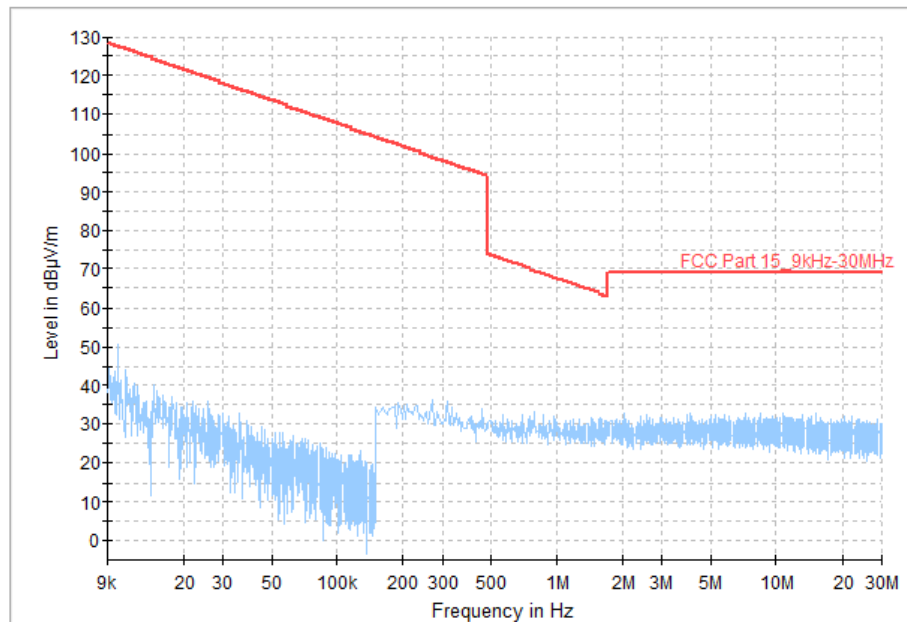
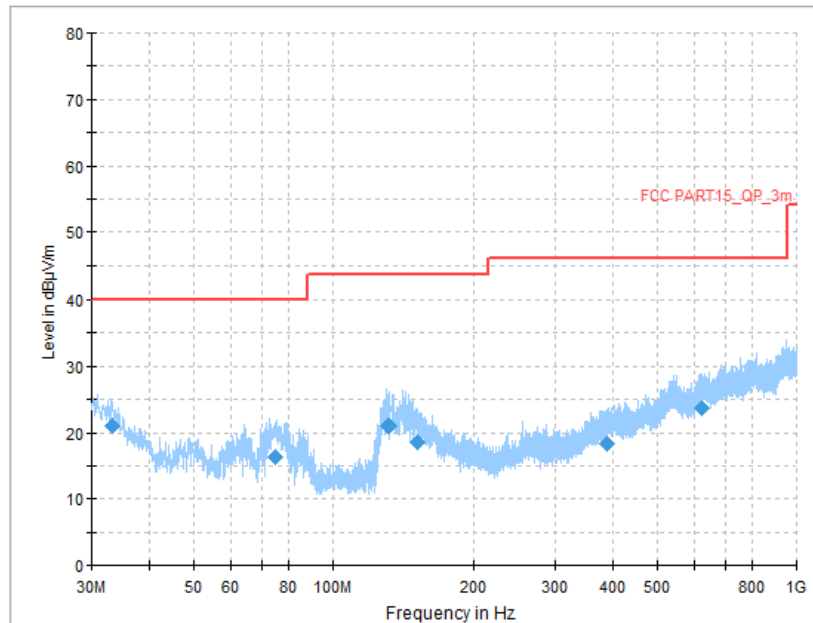
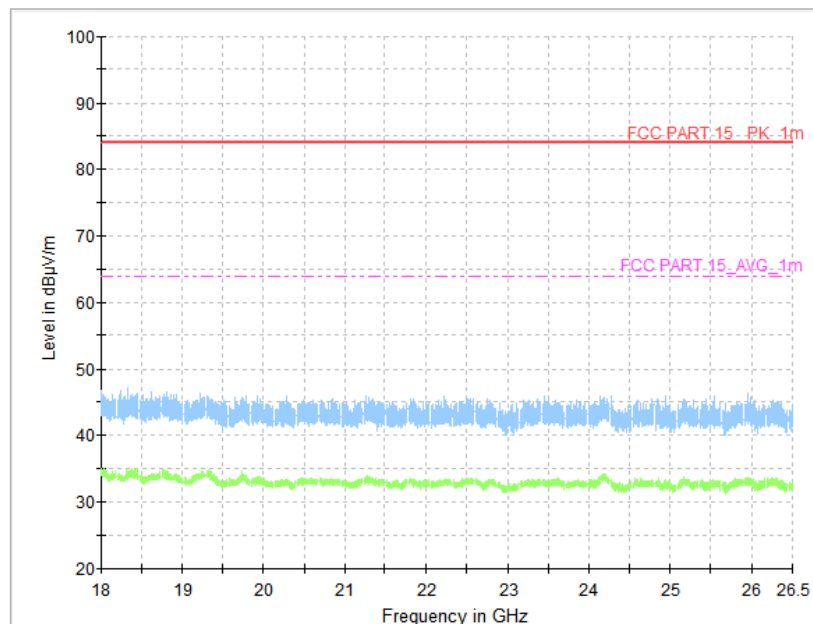


Fig.6 Radiated Spurious Emission (All Channels, 9kHz-30MHz), LE 1M



**Fig.7 Radiated Spurious Emission (All Channels, 30MHz-1GHz), LE 1M**



**Fig.8 Radiated Spurious Emission (All Channels, 18GHz-26.5GHz), LE 1M**

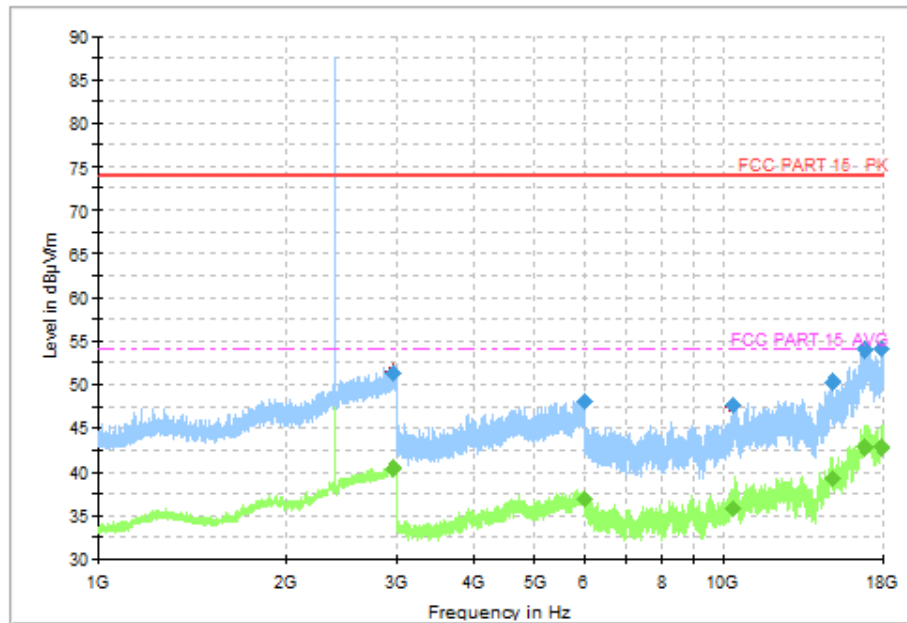


Fig.9 Radiated Spurious Emission (CH0, 1GHz ~18GHz), LE 2M

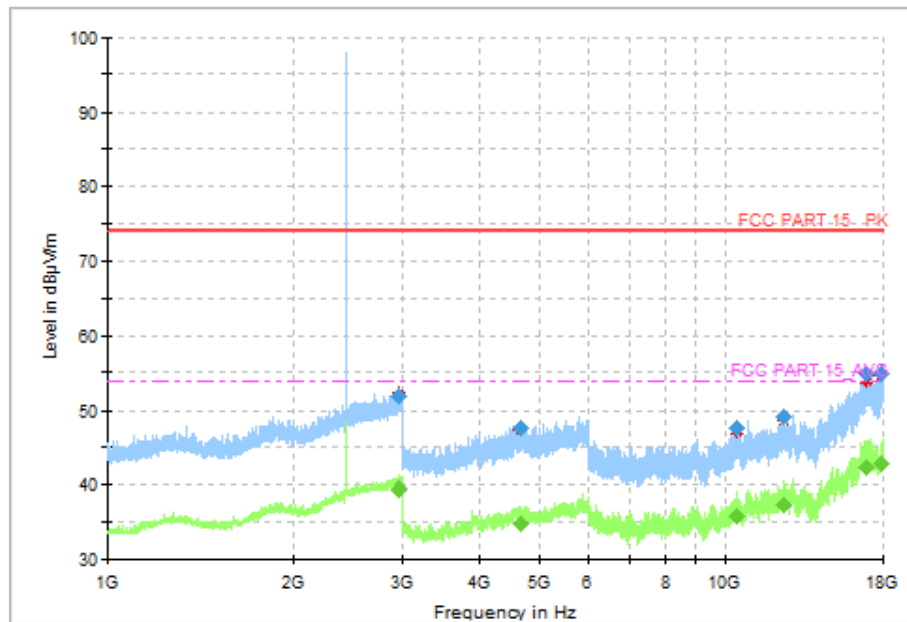


Fig.10 Radiated Spurious Emission (CH19, 1GHz ~18GHz), LE 2M

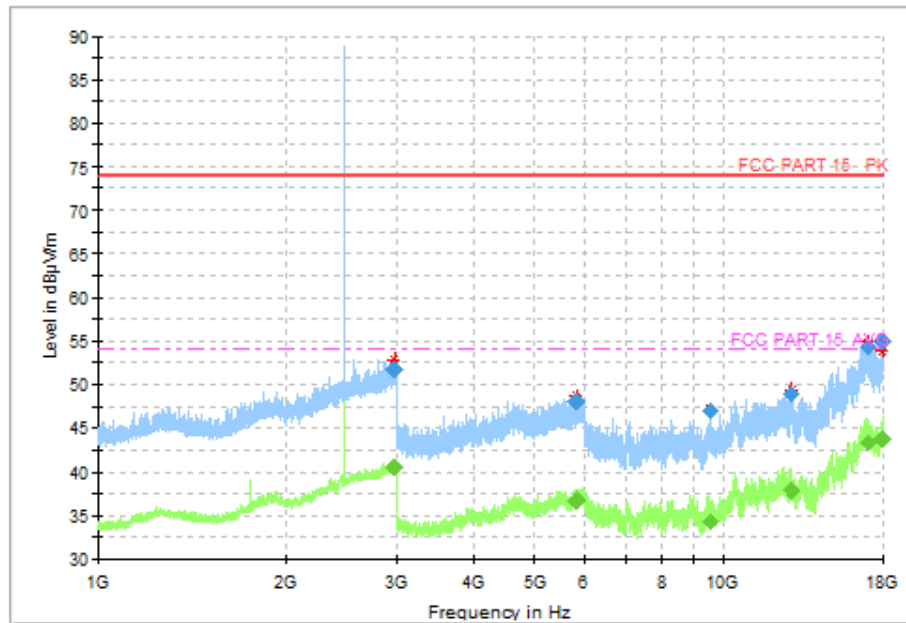


Fig.11 Radiated Spurious Emission (CH39, 1GHz ~18GHz), LE 2M

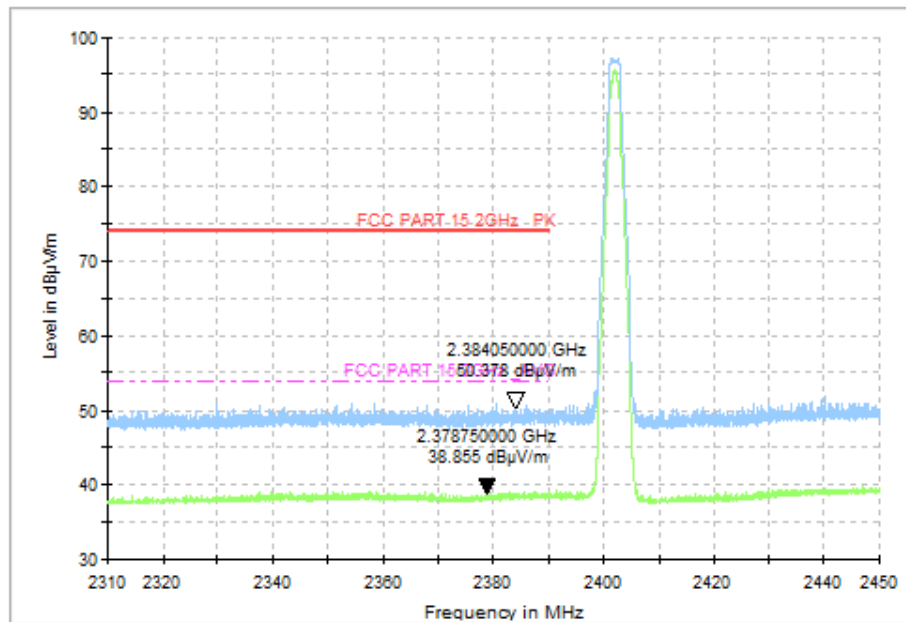


Fig.12 Radiated Band Edges (CH0, 2.38GHz~2.45GHz), LE 2M

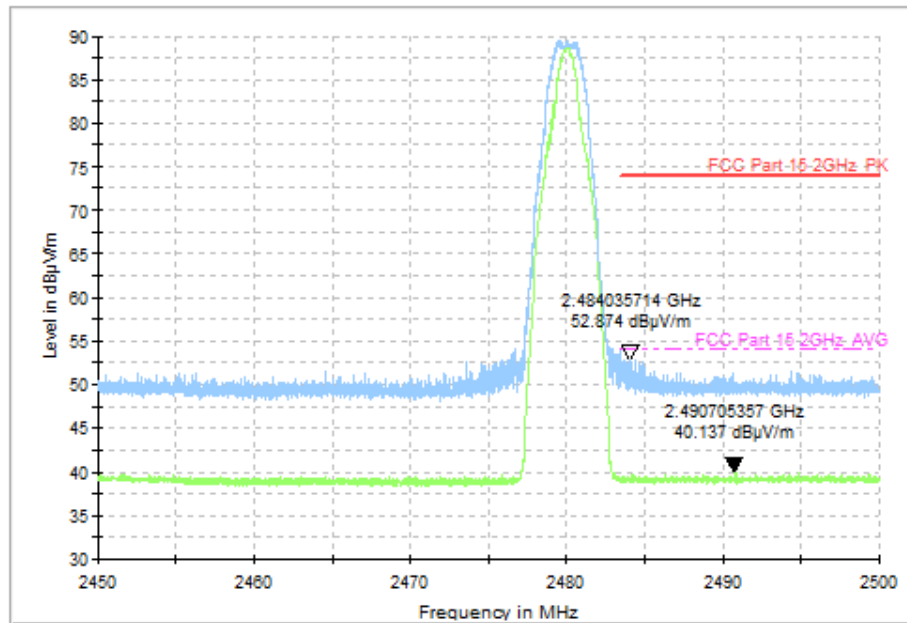


Fig.13 Radiated Band Edges (CH39, 2.45GHz~2.50GHz), LE 2M

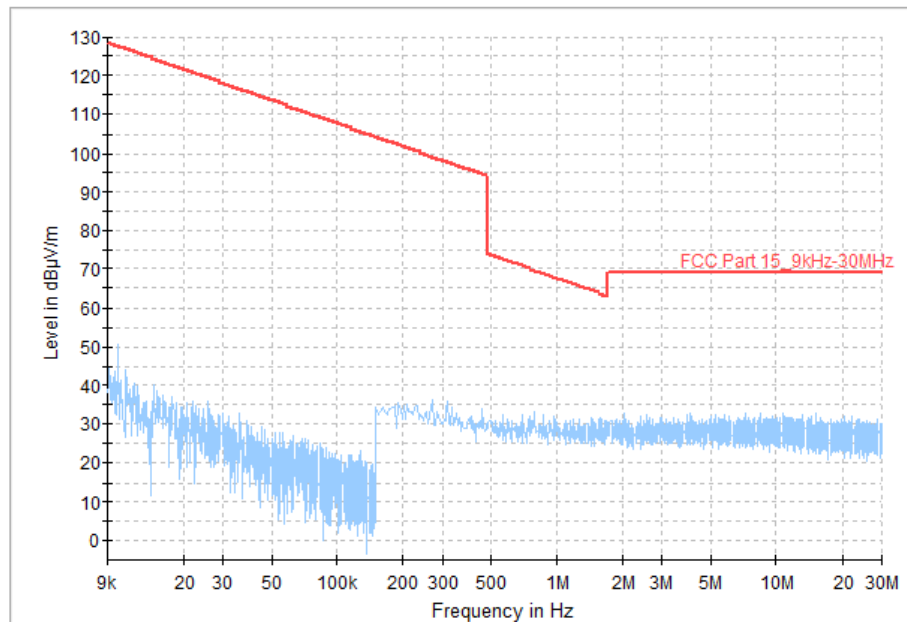
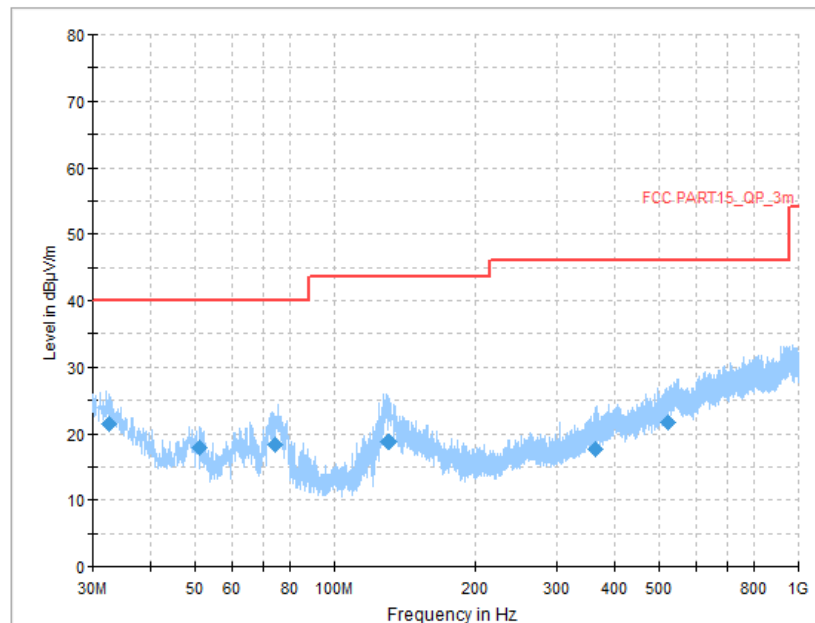
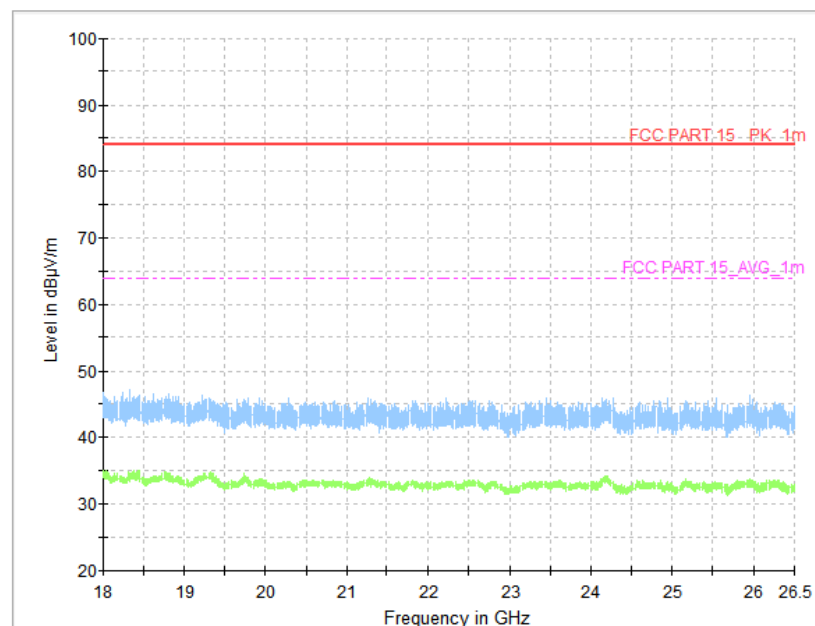


Fig.14 Radiated Spurious Emission (All Channels, 9kHz-30MHz), LE 2M



**Fig.15 Radiated Spurious Emission (All Channels, 30MHz-1GHz), LE 2M**



**Fig.16 Radiated Spurious Emission (All Channels, 18GHz-26.5 GHz), LE 2M**

**A.2 AC Power line Conducted Emission****Method of Measurement:** See ANSI C63.10-clause 6.2.**Test Condition:**

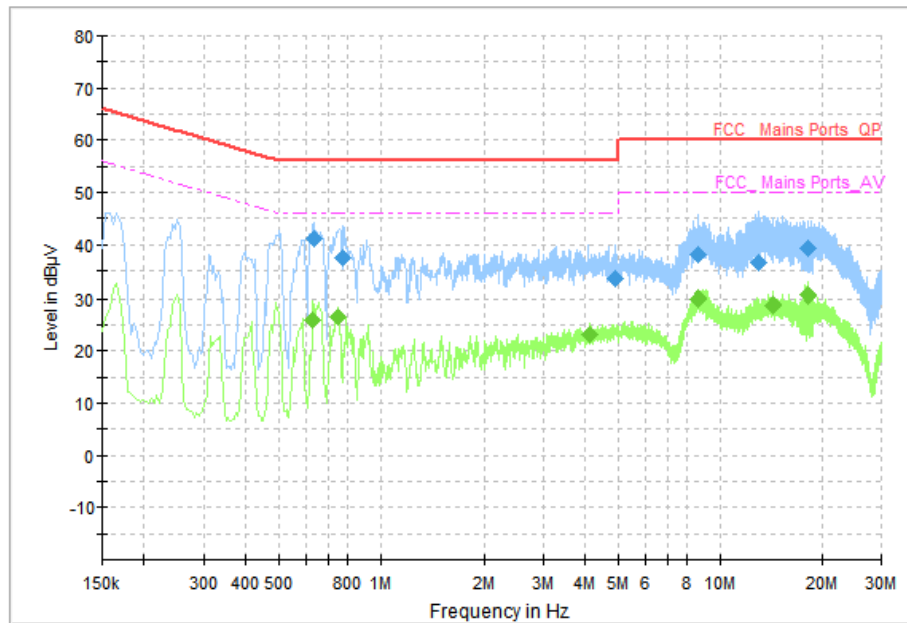
| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 120         | 60             |

**Measurement Result and limit:****BLE-AE2, AE3**

| Frequency range<br>(MHz) | Quasi-peak<br>Limit (dBμV) | Average-peak<br>Limit (dBμV) | Result (dBμV) |        | Conclusion |
|--------------------------|----------------------------|------------------------------|---------------|--------|------------|
|                          |                            |                              | Traffic       | Idle   |            |
| 0.15 to 0.5              | 66 to 56                   | 56 to 46                     | Fig.17        | Fig.18 | <b>P</b>   |
| 0.5 to 5                 | 56                         | 46                           |               |        |            |
| 5 to 30                  | 60                         | 50                           |               |        |            |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Note:** The measurement results include the L1 and N measurements.**See below for test graphs.****Conclusion: Pass**



**Fig.17 AC Power line Conducted Emission (Traffic)**

#### Measurement Results: Quasi Peak

| Frequency (MHz) | Quasi Peak (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|-------------------|--------------|-------------|------|--------|------------|
| 0.634000        | 41.10             | 56.00        | 14.90       | L1   | ON     | 10         |
| 0.774000        | 37.36             | 56.00        | 18.64       | L1   | ON     | 10         |
| 4.878000        | 33.53             | 56.00        | 22.47       | L1   | ON     | 10         |
| 8.642000        | 38.06             | 60.00        | 21.94       | L1   | ON     | 10         |
| 12.986000       | 36.72             | 60.00        | 23.28       | L1   | ON     | 10         |
| 18.282000       | 39.21             | 60.00        | 20.79       | L1   | ON     | 10         |

#### Measurement Results: Average

| Frequency (MHz) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|----------------|--------------|-------------|------|--------|------------|
| 0.630000        | 25.90          | 46.00        | 20.10       | L1   | ON     | 10         |
| 0.746000        | 26.52          | 46.00        | 19.48       | L1   | ON     | 10         |
| 4.118000        | 23.25          | 46.00        | 22.75       | L1   | ON     | 10         |
| 8.646000        | 29.70          | 50.00        | 20.30       | L1   | ON     | 10         |
| 14.374000       | 28.77          | 50.00        | 21.23       | L1   | ON     | 10         |
| 18.114000       | 30.59          | 50.00        | 19.41       | L1   | ON     | 10         |

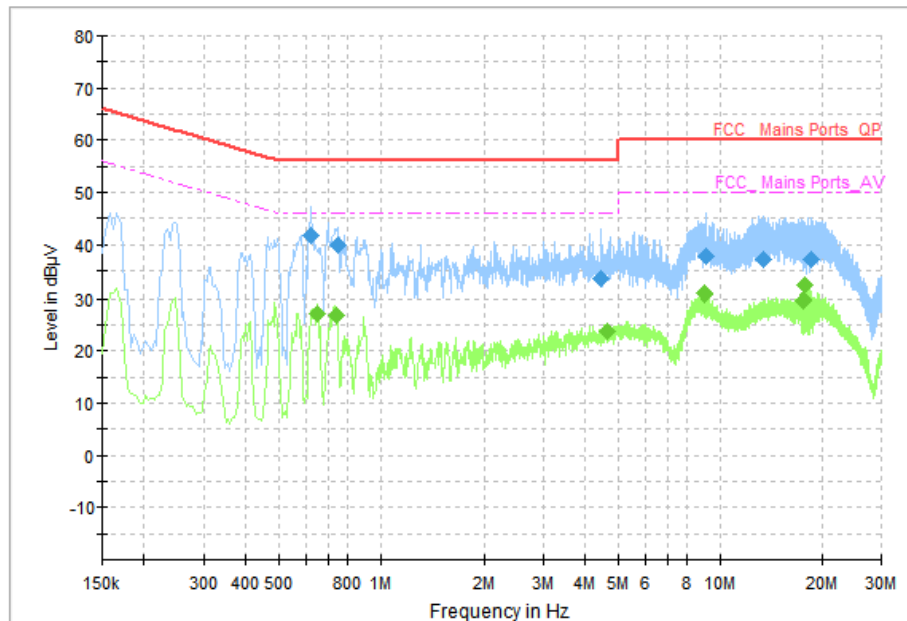


Fig.18 AC Power line Conducted Emission (Idle)

#### Measurement Results: Quasi Peak

| Frequency (MHz) | Quasi Peak (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|-------------------|--------------|-------------|------|--------|------------|
| 0.622000        | 41.65             | 56.00        | 14.35       | N    | ON     | 10         |
| 0.750000        | 40.07             | 56.00        | 15.93       | N    | ON     | 10         |
| 4.434000        | 33.44             | 56.00        | 22.56       | N    | ON     | 10         |
| 9.058000        | 37.86             | 60.00        | 22.14       | N    | ON     | 10         |
| 13.398000       | 37.18             | 60.00        | 22.82       | N    | ON     | 10         |
| 18.534000       | 37.18             | 60.00        | 22.82       | N    | ON     | 11         |

#### Measurement Results: Average

| Frequency (MHz) | Average (dBμV) | Limit (dBμV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|----------------|--------------|-------------|------|--------|------------|
| 0.650000        | 27.11          | 46.00        | 18.89       | N    | ON     | 10         |
| 0.742000        | 26.71          | 46.00        | 19.29       | N    | ON     | 10         |
| 4.630000        | 23.66          | 46.00        | 22.34       | N    | ON     | 10         |
| 8.942000        | 30.81          | 50.00        | 19.19       | N    | ON     | 10         |
| 17.638000       | 29.66          | 50.00        | 20.34       | N    | ON     | 11         |
| 17.878000       | 32.15          | 50.00        | 17.85       | N    | ON     | 11         |

\*\*\*END OF REPORT\*\*\*