



# RF TEST REPORT

Product Name: Feature phone

Model Name: INOI 105, INOI 100, INOI 101

FCC ID: 2A9SN-INOI105

Issued For : INOI Limited

Office 302, Dominion Centre 43-59, Queens Road, East  
Wanchai, Hong Kong, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park,  
No.177 Renmin West Road, Jinsha Community, Kengzi  
Street, Pingshan New District, Shenzhen, China

Report Number: LGT23A020RF01

Sample Received Date: Jan. 10, 2023

Date of Test: Jan. 10, 2023 ~ Feb. 08, 2023

Date of Issue: Feb. 08, 2023

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## TEST REPORT CERTIFICATION

**Applicant** INOI Limited  
**Address** Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China  
**Manufacturer** INOI Limited  
**Address** Office 302, Dominion Centre 43-59, Queens Road, East Wanchai, Hong Kong, China  
**Product Name** Feature phone  
**Trademark** INOI  
**Model Name** INOI 105, INOI 100, INOI 101  
**Sample Status:** Normal

| APPLICABLE STANDARDS                           |              |
|------------------------------------------------|--------------|
| STANDARD                                       | TEST RESULTS |
| FCC Part 15.247, Subpart C<br>ANSI C63.10-2013 | PASS         |

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## Table of Contents

|                                                            | Page      |
|------------------------------------------------------------|-----------|
| <b>1. SUMMARY OF TEST RESULTS</b>                          | <b>6</b>  |
| 1.1 TEST FACTORY                                           | 7         |
| 1.2 MEASUREMENT UNCERTAINTY                                | 7         |
| <b>2. GENERAL INFORMATION</b>                              | <b>8</b>  |
| 2.1 GENERAL DESCRIPTION OF THE EUT                         | 8         |
| 2.2 DESCRIPTION OF THE TEST MODES                          | 10        |
| 2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS                  | 10        |
| 2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING           | 11        |
| 2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS | 12        |
| 2.6 EQUIPMENTS LIST                                        | 13        |
| <b>3. EMC EMISSION TEST</b>                                | <b>14</b> |
| 3.1 CONDUCTED EMISSION MEASUREMENT                         | 14        |
| 3.2 RADIATED EMISSION MEASUREMENT                          | 18        |
| <b>4. CONDUCTED SPURIOUS &amp; BAND EDGE EMISSION</b>      | <b>35</b> |
| 4.1 LIMIT                                                  | 35        |
| 4.2 TEST PROCEDURE                                         | 35        |
| 4.3 TEST SETUP                                             | 36        |
| 4.4 EUT OPERATION CONDITIONS                               | 36        |
| 4.5 TEST RESULTS                                           | 36        |
| <b>5. NUMBER OF HOPPING CHANNEL</b>                        | <b>37</b> |
| 5.1 LIMIT                                                  | 37        |
| 5.2 TEST PROCEDURE                                         | 37        |
| 5.3 TEST SETUP                                             | 37        |
| 5.4 EUT OPERATION CONDITIONS                               | 37        |
| 5.5 TEST RESULTS                                           | 37        |
| <b>6. AVERAGE TIME OF OCCUPANCY</b>                        | <b>38</b> |
| 6.1 LIMIT                                                  | 38        |
| 6.2 TEST PROCEDURE                                         | 38        |
| 6.3 TEST SETUP                                             | 38        |
| 6.4 EUT OPERATION CONDITIONS                               | 38        |
| 6.5 TEST RESULTS                                           | 38        |
| <b>7. HOPPING CHANNEL SEPARATION MEASUREMENT</b>           | <b>39</b> |
| 7.1 LIMIT                                                  | 39        |
| 7.2 TEST PROCEDURE                                         | 39        |



## Table of Contents

|                                          | Page      |
|------------------------------------------|-----------|
| 7.3 TEST SETUP                           | 39        |
| 7.4 EUT OPERATION CONDITIONS             | 39        |
| 7.5 TEST RESULTS                         | 39        |
| <b>8. BANDWIDTH TEST</b>                 | <b>40</b> |
| 8.1 LIMIT                                | 40        |
| 8.2 TEST PROCEDURE                       | 40        |
| 8.3 TEST SETUP                           | 40        |
| 8.4 EUT OPERATION CONDITIONS             | 40        |
| 8.5 TEST RESULTS                         | 40        |
| <b>9. OUTPUT POWER TEST</b>              | <b>41</b> |
| 9.1 LIMIT                                | 41        |
| 9.2 TEST PROCEDURE                       | 41        |
| 9.3 TEST SETUP                           | 41        |
| 9.4 EUT OPERATION CONDITIONS             | 41        |
| 9.5 TEST RESULTS                         | 42        |
| <b>10. ANTENNA REQUIREMENT</b>           | <b>43</b> |
| 10.1 STANDARD REQUIREMENT                | 43        |
| 10.2 EUT ANTENNA                         | 43        |
| <b>APPENDIX I:TEST RESULTS</b>           | <b>44</b> |
| DUTY CYCLE                               | 44        |
| MAXIMUM PEAK CONDUCTED OUTPUT POWER      | 48        |
| -20DB BANDWIDTH                          | 49        |
| OCCUPIED CHANNEL BANDWIDTH               | 53        |
| CARRIER FREQUENCIES SEPARATION           | 57        |
| BAND EDGE                                | 61        |
| BAND EDGE(HOPPING)                       | 66        |
| CONDUCTED RF SPURIOUS EMISSION           | 71        |
| NUMBER OF HOPPING CHANNEL                | 78        |
| DWELL TIME                               | 80        |
| <b>APPENDIX II: PHOTOS OF TEST SETUP</b> | <b>83</b> |



### **Revision History**

| Rev. | Issue Date    | Contents      |
|------|---------------|---------------|
| 00   | Feb. 08, 2023 | Initial Issue |
|      |               |               |



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

KDB 558074 D01 15.247 Meas Guidance v05r02.

| FCC Part 15.247, Subpart C    |                                         |          |        |
|-------------------------------|-----------------------------------------|----------|--------|
| Standard Section              | Test Item                               | Judgment | Remark |
| 15.207                        | Conducted Emission                      | PASS     | --     |
| 15.247(a)(1)                  | Hopping Channel Separation              | PASS     | --     |
| 15.247(a)(1)&(b)(1)           | Output Power                            | PASS     | --     |
| 15.209                        | Radiated Spurious Emission              | PASS     | --     |
| 15.247(d)                     | Conducted Spurious & Band Edge Emission | PASS     | --     |
| 15.247(a)(1)(iii)             | Number of Hopping Frequency             | PASS     | --     |
| 15.247(a)(1)(iii)             | Dwell Time                              | PASS     | --     |
| 15.247(a)(1)                  | Bandwidth                               | PASS     | --     |
| 15.205                        | Restricted bands of operation           | PASS     | --     |
| Part 15.247(d)/part 15.209(a) | Band Edge Emission                      | PASS     | --     |
| 15.203                        | Antenna Requirement                     | PASS     | --     |

### NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.



## 1.1 TEST FACTORY

|                           |                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name:             | Shenzhen LGT Test Service Co., Ltd.                                                                                                                         |
| Address:                  | Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China |
| Accreditation Certificate | FCC Registration No.: 746540                                                                                                                                |
|                           | A2LA Certificate No.: 6727.01                                                                                                                               |

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95** %.

| No. | Item                              | Uncertainty          |
|-----|-----------------------------------|----------------------|
| 1   | RF output power, conducted        | $\pm 0.68\text{dB}$  |
| 2   | Unwanted Emissions, conducted     | $\pm 2.988\text{dB}$ |
| 3   | All emissions, radiated 9K-30MHz  | $\pm 2.84\text{dB}$  |
| 4   | All emissions, radiated 30M-1GHz  | $\pm 4.39\text{dB}$  |
| 5   | All emissions, radiated 1G-6GHz   | $\pm 5.10\text{dB}$  |
| 6   | All emissions, radiated >6G       | $\pm 5.48\text{dB}$  |
| 7   | Conducted Emission (9KHz-150KHz)  | $\pm 2.79\text{dB}$  |
| 8   | Conducted Emission (150KHz-30MHz) | $\pm 2.80\text{dB}$  |



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

| Product Name           | Feature phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|--------|------------------|------------|--|-------|-------|---------------------|---------|--------|------------------|------------|----------|----|-----------|----|----|-----------|-----------|---------|-----|-----------|-----|-----|-----------|-----------|---------|-----|-----------|-----|----|-----------|-----------|
| Trademark              | INOI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Model Name             | INOI 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Series Model           | INOI 100, INOI 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Model Difference       | <table><tr><th>Model</th><th>Motor</th><th>Key Screen printing</th><th>Adapter</th><th>Camera</th><th>Hardware Version</th><th>Rear cover</th></tr><tr><td>INOI 100</td><td>ON</td><td>different</td><td>NO</td><td>NO</td><td>identical</td><td>identical</td></tr><tr><td>NOI 105</td><td>YES</td><td>identical</td><td>YES</td><td>YES</td><td>identical</td><td>different</td></tr><tr><td>NOI 101</td><td>YES</td><td>identical</td><td>YES</td><td>NO</td><td>identical</td><td>identical</td></tr></table> |                     |         |        |                  |            |  | Model | Motor | Key Screen printing | Adapter | Camera | Hardware Version | Rear cover | INOI 100 | ON | different | NO | NO | identical | identical | NOI 105 | YES | identical | YES | YES | identical | different | NOI 101 | YES | identical | YES | NO | identical | identical |
| Model                  | Motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Key Screen printing | Adapter | Camera | Hardware Version | Rear cover |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| INOI 100               | ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | different           | NO      | NO     | identical        | identical  |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| NOI 105                | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | identical           | YES     | YES    | identical        | different  |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| NOI 101                | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | identical           | YES     | NO     | identical        | identical  |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Channel List           | Please refer to the Note 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Bluetooth              | Frequency:2402 – 2480 MHz<br>Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps)                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Antenna Type           | Please refer to the Note 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Adapter                | Model: ICH-01/19<br>Input: 100-240~50/60Hz 0.15A<br>Output: DC5.0V 1.0A, 5W                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Battery                | Capacity: 600mAh<br>Rated Voltage: 3.7V                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Hardware Version       | E38_MB_V1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Software Version       | E19_XMF_BM17M_INOI_105_RU+CIS_V01_20210929_1740                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |
| Connecting I/O Port(s) | Please refer to the Note 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |        |                  |            |  |       |       |                     |         |        |                  |            |          |    |           |    |    |           |           |         |     |           |     |     |           |           |         |     |           |     |    |           |           |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.



2.

| Channel List |                 |         |                 |         |                 |
|--------------|-----------------|---------|-----------------|---------|-----------------|
| Channel      | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 00           | 2402            | 27      | 2429            | 54      | 2456            |
| 01           | 2403            | 28      | 2430            | 55      | 2457            |
| 02           | 2404            | 29      | 2431            | 56      | 2458            |
| 03           | 2405            | 30      | 2432            | 57      | 2459            |
| 04           | 2406            | 31      | 2433            | 58      | 2460            |
| 05           | 2407            | 32      | 2434            | 59      | 2461            |
| 06           | 2408            | 33      | 2435            | 60      | 2462            |
| 07           | 2409            | 34      | 2436            | 61      | 2463            |
| 08           | 2410            | 35      | 2437            | 62      | 2464            |
| 09           | 2411            | 36      | 2438            | 63      | 2465            |
| 10           | 2412            | 37      | 2439            | 64      | 2466            |
| 11           | 2413            | 38      | 2440            | 65      | 2467            |
| 12           | 2414            | 39      | 2441            | 66      | 2468            |
| 13           | 2415            | 40      | 2442            | 67      | 2469            |
| 14           | 2416            | 41      | 2443            | 68      | 2470            |
| 15           | 2417            | 42      | 2444            | 69      | 2471            |
| 16           | 2418            | 43      | 2445            | 70      | 2472            |
| 17           | 2419            | 44      | 2446            | 71      | 2473            |
| 18           | 2420            | 45      | 2447            | 72      | 2474            |
| 19           | 2421            | 46      | 2448            | 73      | 2475            |
| 20           | 2422            | 47      | 2449            | 74      | 2476            |
| 21           | 2423            | 48      | 2450            | 75      | 2477            |
| 22           | 2424            | 49      | 2451            | 76      | 2478            |
| 23           | 2425            | 50      | 2452            | 77      | 2479            |
| 24           | 2426            | 51      | 2453            | 78      | 2480            |
| 25           | 2427            | 52      | 2454            |         |                 |
| 26           | 2428            | 53      | 2455            |         |                 |

3. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE   |
|------|-------|------------|--------------|-----------|------------|--------|
| 1    | INOI  | INOI 105   | PIFA antenna | N/A       | 1.61dBi    | BT ANT |

The antenna information provide by manufacturer, applicable only to the tested sample identified in the report.



## 2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Worst Mode | Description | Data Rate/Modulation   |
|------------|-------------|------------------------|
| Mode 1     | TX CH00     | 1Mbps/GFSK             |
| Mode 2     | TX CH39     | 1Mbps/GFSK             |
| Mode 3     | TX CH78     | 1Mbps/GFSK             |
| Mode 4     | TX CH00     | 2 Mbps/ $\pi$ /4-DQPSK |
| Mode 5     | TX CH39     | 2 Mbps/ $\pi$ /4-DQPSK |
| Mode 6     | TX CH78     | 2 Mbps/ $\pi$ /4-DQPSK |
| Mode 7     | TX CH00     | 3 Mbps/8DPSK           |
| Mode 8     | TX CH39     | 3 Mbps/8DPSK           |
| Mode 9     | TX CH78     | 3 Mbps/8DPSK           |
| Mode 10    | Hopping     | GFSK                   |
| Mode 11    | Hopping     | $\pi$ /4-DQPSK         |
| Mode 12    | Hopping     | 8DPSK                  |

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report.

(3) The battery is fully charged during the radiated and RF conducted test.

For AC Conducted Emission

| Test Case             |                        |
|-----------------------|------------------------|
| AC Conducted Emission | Mode 13: Keeping BT TX |

## 2.3 FREQUENCY HOPPING SYSTEM REQUIREMENTS

(1) Standard and Limit

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express



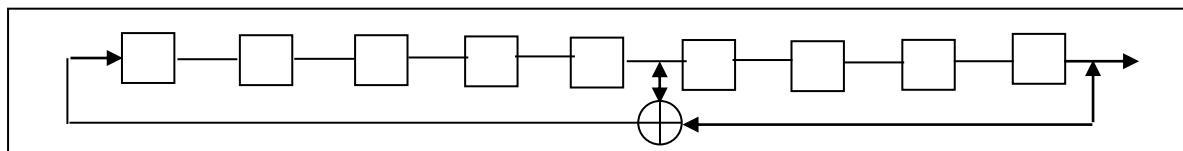
purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

(2) The Pseudorandom sequence may be generated in a nine-stage shift register whose 5<sup>th</sup> and 9<sup>th</sup> stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones: i.e. the shift register is initialized with nine ones.

Numver of shift register stages:9

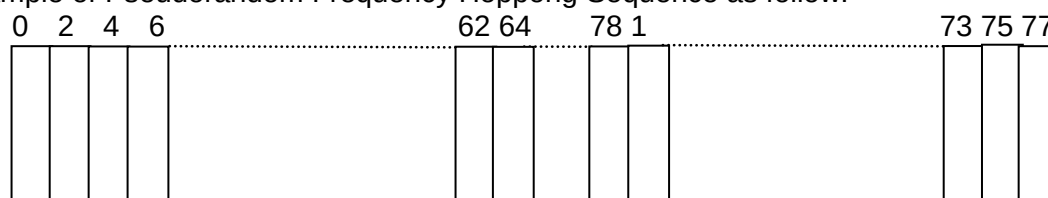
Length of pseudo-random sequence: $2^9-1=511$ bits

Longest sequence of zeros: 8(non-inverted signal)



Linear Feedback Shift Register for Generator of the PRBS sequence

An example of Pseudorandom Frequency Hoppong Sequence as follow:



Each frequency used equally on th average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies ini synchronization with the transmitted signals.

### (3) Frequency Hopping System

This transmitter device is frequency hopping device and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless device are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with a bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements FCC Part 15.247 rule.

### 2.4 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS.



| Test software Version | Test program: Bluetooth |         |
|-----------------------|-------------------------|---------|
| Non signaling         | 1M                      | Default |
|                       | 2M                      | Default |
|                       | 3M                      | Default |

## 2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

### Accessories Equipment

| Description             | Manufacturer                                  | Model                | S/N | Rating                                               |
|-------------------------|-----------------------------------------------|----------------------|-----|------------------------------------------------------|
| Adapter                 | SHENZHEN<br>DINGLIXUN<br>ELECTRONIC<br>CO.LTD | DLX226-0501500E<br>C | N/A | Input: 100-240V ~ 50/60Hz<br>0.3A<br>Output: 5V/1.5A |
| USB-A to USB-C<br>Cable | N/A                                           | N/A                  | N/A | 1m, shielded, without<br>ferrite core                |
|                         |                                               |                      |     |                                                      |
|                         |                                               |                      |     |                                                      |

### Auxiliary Equipment

| Description       | Manufacturer | Model    | S/N | Rating |
|-------------------|--------------|----------|-----|--------|
| Earphone          | N/A          | 39630078 | N/A | N/A    |
| Laptop            | HUAWEI       | HKF-16   | N/A | N/A    |
| HUAWEI MateDock 3 | HUAWEI       | CD12     | N/A | N/A    |

#### Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



## 2.6 EQUIPMENTS LIST

### Conducted Emission

| Equipment              | Manufacturer        | Model No. | Serial No.  | Cal. Date  | Cal. Until |
|------------------------|---------------------|-----------|-------------|------------|------------|
| EMI Test Receiver      | R&S                 | ESU       | 100372      | 2022.04.12 | 2023.04.11 |
| LISN                   | COM-POWER           | LI-115    | 02032       | 2022.04.13 | 2023.04.12 |
| LISN                   | SCHWARZBECK         | NNLK 8121 | 00847       | 2022.08.19 | 2023.08.18 |
| CE Cable               | N.A                 | C01       | N.A         | 2022.05.05 | 2023.05.04 |
| Transient Limiter      | CYBERTEK            | EM5010A   | E2250100049 | 2022.08.19 | 2023.08.18 |
| Temperature & Humidity | KTJ                 | TA218B    | N.A         | 2022.05.05 | 2023.05.04 |
| Testing Software       | EMC-I_V1.4.0.3_SKET |           |             |            |            |

### Radiation Test equipment

| Kind of Equipment        | Manufacturer        | Type No.  | Serial No. | Last calibration | Calibrated until |
|--------------------------|---------------------|-----------|------------|------------------|------------------|
| EMI Test Receiver        | R&S                 | ESU       | 100372     | 2022.04.12       | 2023.04.11       |
| Spectrum Analyzer        | Keysight            | N9010B    | MY60242508 | 2022.04.29       | 2023.04.28       |
| Bilog Antenna            | SCHWARZBECK         | VULB 9168 | 01447      | 2022.12.12       | 2024.12.11       |
| Horn Antenna             | SCHWARZBECK         | 3115      | 10SL0060   | 2022.06.02       | 2024.06.01       |
| Pre-amplifier(0.1M-3GHz) | HP                  | 8447D     | 2727A05655 | 2022.04.11       | 2023.04.10       |
| Pre-amplifier(1-26.5G)   | Agilent             | 8449B     | 3008A4722  | 2022.04.12       | 2023.04.11       |
| RE Cable (9K-1G)         | N.A                 | R01       | N.A        | 2022.05.05       | 2023.05.04       |
| RE Cable (1-26G)         | N.A                 | R02       | N.A        | 2022.05.05       | 2023.05.04       |
| Temperature & Humidity   | KTJ                 | TA218B    | N.A        | 2022.05.05       | 2023.05.04       |
| Testing Software         | EMC-I_V1.4.0.3_SKET |           |            |                  |                  |

### RF Connected Test equipment

| Kind of Equipment                  | Manufacturer               | Type No. | Serial No. | Last calibration | Calibrated until |
|------------------------------------|----------------------------|----------|------------|------------------|------------------|
| Signal Generator                   | Keysight                   | N5182B   | MY59100717 | 2022.04.30       | 2023.04.29       |
| Signal Analyzer                    | Keysight                   | N9010B   | MY60242508 | 2022.04.29       | 2023.04.28       |
| Temperature & Humidity             | KTJ                        | TA218B   | N/A        | 2022.05.05       | 2023.05.04       |
| Temperature& Humidity test chamber | AISRY                      | LX-1000L | 171200018  | 2022.05.10       | 2023.05.09       |
| Attenuator                         | eastsheep                  | 90db     | N/A        | 2022.04.29       | 2023.04.28       |
| Testing Software                   | MTS 8310_2.0.0.0_MWRF-TEST |          |            |                  |                  |



### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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 (MHz) | Conducted Emissionlimit (dBuV) |           |
|-----------------|--------------------------------|-----------|
|                 | Quasi-peak                     | Average   |
| 0.15 -0.5       | 66 - 56 *                      | 56 - 46 * |
| 0.50 -5.0       | 56.00                          | 46.00     |
| 5.0 -30.0       | 60.00                          | 50.00     |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ \* ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

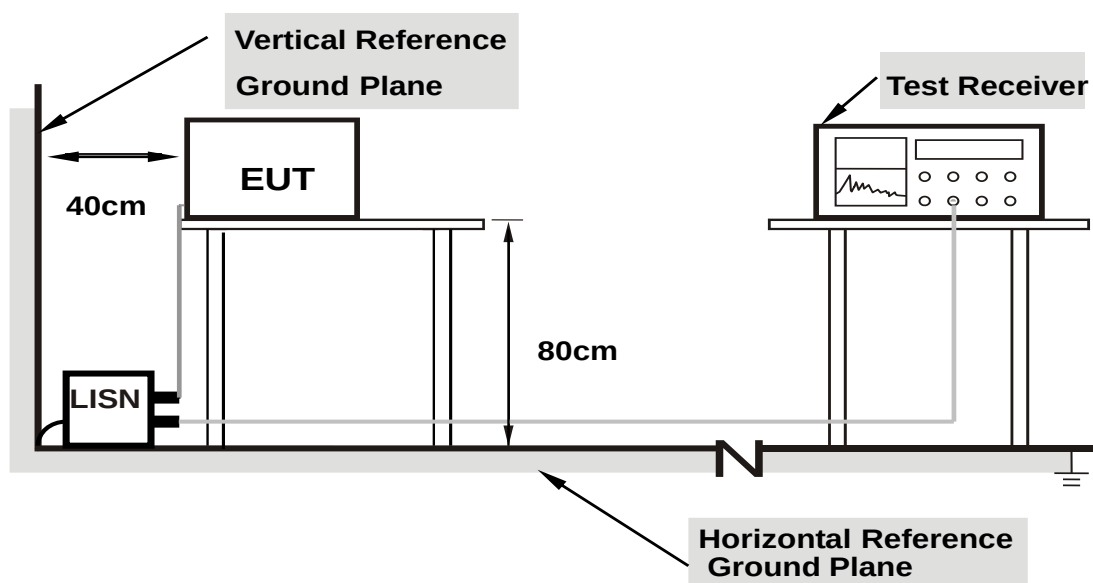
The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

### 3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.**

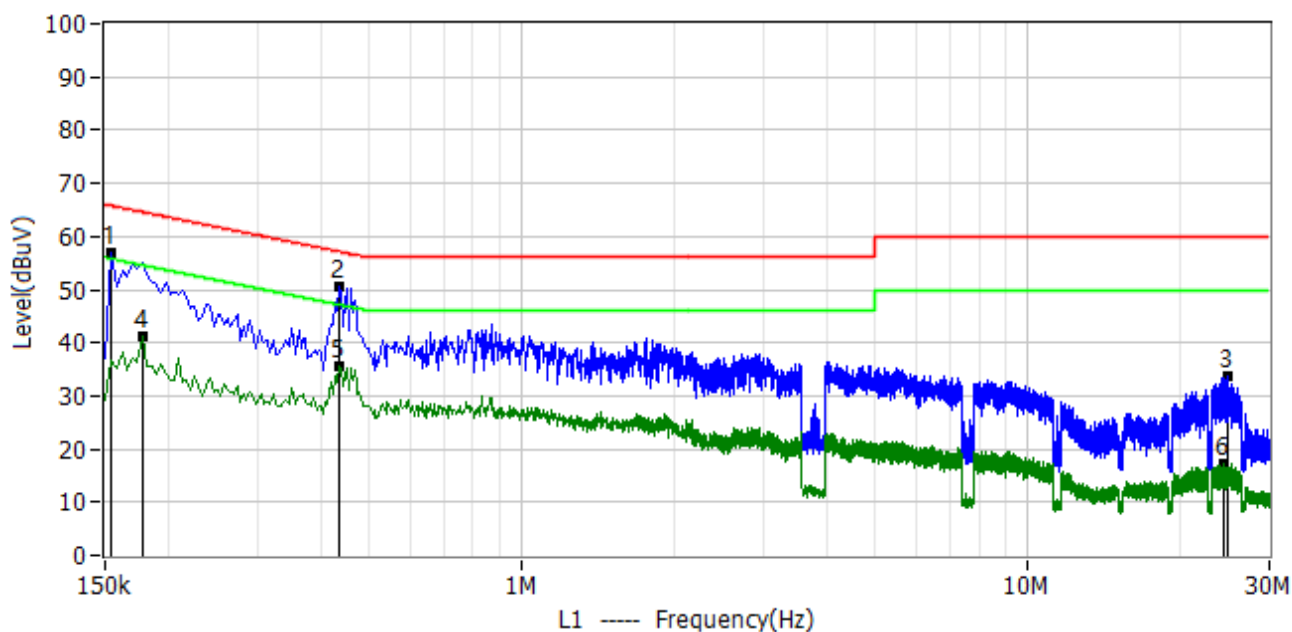
### 3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



### 3.1.5 TEST RESULT

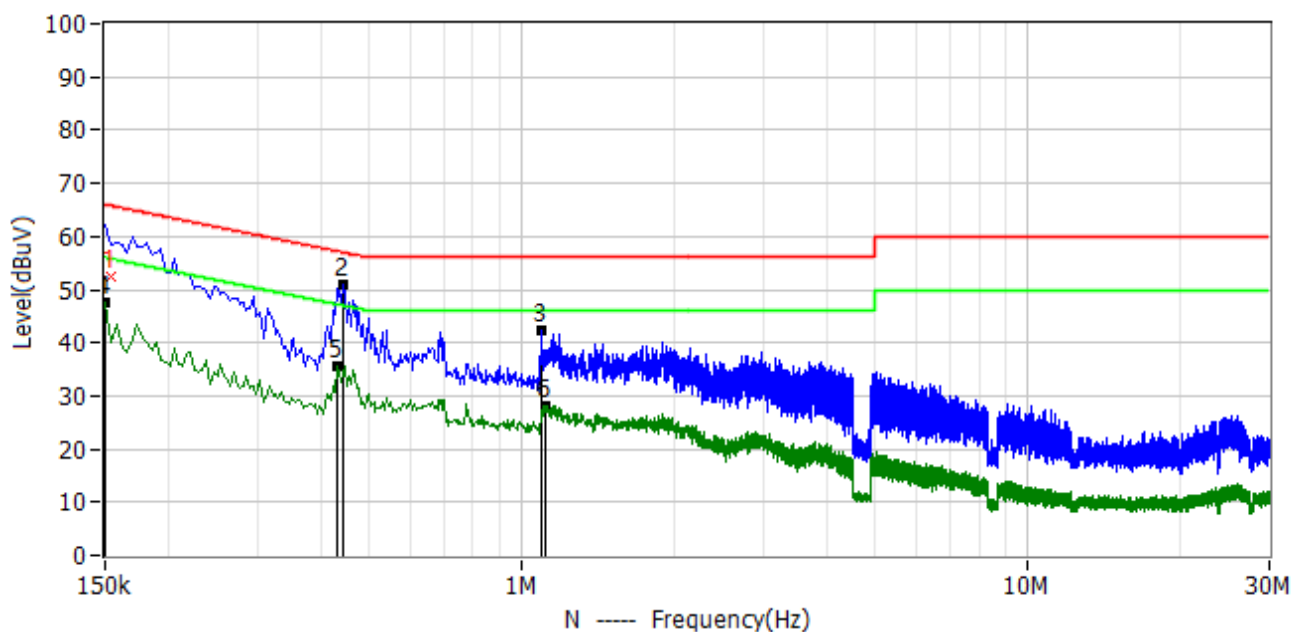
|                                           |                          |
|-------------------------------------------|--------------------------|
| Project: LGT23A020                        | Test Engineer: Dylan.shi |
| EUT: Feature phone                        | Temperature: 19.1°C      |
| M/N: INOI 105                             | Humidity: 61%RH          |
| Test Voltage: AC 120V/60Hz                | Test Data: 2023-02-06    |
| Test Mode: Charging+BT+GSM Link +Earphone |                          |
| Note:                                     |                          |



| No. | Frequency  | Reading dBuV | Factor dB | Level dBuV | Limit dBuV | Margin dB | Detector | Polar |
|-----|------------|--------------|-----------|------------|------------|-----------|----------|-------|
| 1*  | 154.000kHz | 46.29        | 10.50     | 56.79      | 65.78      | -8.99     | PK       | L1    |
| 2*  | 434.000kHz | 40.08        | 10.50     | 50.58      | 57.18      | -6.60     | PK       | L1    |
| 3*  | 24.754MHz  | 22.43        | 11.18     | 33.61      | 60.00      | -26.39    | PK       | L1    |
| 4*  | 178.000kHz | 30.61        | 10.50     | 41.11      | 54.58      | -13.47    | AV       | L1    |
| 5*  | 434.000kHz | 24.90        | 10.50     | 35.40      | 47.18      | -11.77    | AV       | L1    |
| 6*  | 24.386MHz  | 6.13         | 11.18     | 17.31      | 50.00      | -32.69    | AV       | L1    |



|                                           |                          |
|-------------------------------------------|--------------------------|
| Project: LGT23A020                        | Test Engineer: Dylan.shi |
| EUT: Feature phone                        | Temperature: 19.1°C      |
| M/N: INOI 105                             | Humidity: 61%RH          |
| Test Voltage: AC 120V/60Hz                | Test Data: 2023-02-06    |
| Test Mode: Charging+BT+GSM Link +Earphone |                          |
| Note:                                     |                          |



| No. | Frequency  | Reading dBuV | Factor dB | Level dBuV | Limit dBuV | Margin dB | Detector | Polar |
|-----|------------|--------------|-----------|------------|------------|-----------|----------|-------|
| 1   | 154.000kHz | 41.89        | 10.50     | 52.39      | 65.78      | -13.39    | QP       | N     |
| 2*  | 442.000kHz | 40.44        | 10.50     | 50.94      | 57.02      | -6.09     | PK       | N     |
| 3*  | 1.090MHz   | 31.62        | 10.55     | 42.17      | 56.00      | -13.83    | PK       | N     |
| 4*  | 150.000kHz | 37.00        | 10.50     | 47.50      | 56.00      | -8.50     | AV       | N     |
| 5*  | 430.000kHz | 25.19        | 10.50     | 35.69      | 47.25      | -11.56    | AV       | N     |
| 6*  | 1.114MHz   | 17.66        | 10.55     | 28.21      | 46.00      | -17.79    | AV       | N     |



## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205 (a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | 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                                |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

| FREQUENCY (MHz) | (dBuV/m) (at 3M) |         |
|-----------------|------------------|---------|
|                 | PEAK             | AVERAGE |
| Above 1000      | 74               | 54      |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RESTRICTED FREQUENCY BANDS

| FREQUENCY (MHz)   | FREQUENCY (MHz)     | FREQUENCY (MHz) | FREQUENCY (GHz) |
|-------------------|---------------------|-----------------|-----------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410       | 4.5-5.15        |
| 0.495-0.505       | 16.69475-16.69525   | 608-614         | 5.35-5.46       |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240        | 7.25-7.75       |
| 4.125-4.128       | 25.5-25.67          | 1300-1427       | 8.025-8.5       |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5     | 9.0-9.2         |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5   | 9.3-9.5         |
| 6.215-6.218       | 74.8-75.2           | 1660-1710       | 10.6-12.7       |
| 6.26775-6.26825   | 108-121.94          | 1718.8-1722.2   | 13.25-13.4      |
| 6.31175-6.31225   | 123-138             | 2200-2300       | 14.47-14.5      |
| 8.291-8.294       | 149.9-150.05        | 2310-2390       | 15.35-16.2      |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500     | 17.7-21.4       |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900       | 22.01-23.12     |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267       | 23.6-24.0       |
| 12.29-12.293      | 167.72-173.2        | 3332-3339       | 31.2-31.8       |
| 12.51975-12.52025 | 240-285             | 3345.8-3358     | 36.43-36.5      |
| 12.57675-12.57725 | 322-335.4           | 3600-4400       | Above 38.6      |
| 13.36-13.41       |                     |                 |                 |



#### For Radiated Emission

| Spectrum Parameter                    | Setting                                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Attenuation                           | Auto                                                                                                                            |
| Detector                              | Peak/QP/AV                                                                                                                      |
| Start Frequency                       | 9 KHz/150KHz(Peak/QP/AV)                                                                                                        |
| Stop Frequency                        | 150KHz/30MHz(Peak/QP/AV)                                                                                                        |
| RB / VB (emission in restricted band) | 200Hz (From 9kHz to 0.15MHz)/<br>9KHz (From 0.15MHz to 30MHz);<br>200Hz (From 9kHz to 0.15MHz)/<br>9KHz (From 0.15MHz to 30MHz) |

| Spectrum Parameter                    | Setting            |
|---------------------------------------|--------------------|
| Attenuation                           | Auto               |
| Detector                              | Peak/QP            |
| Start Frequency                       | 30 MHz(Peak/QP)    |
| Stop Frequency                        | 1000 MHz (Peak/QP) |
| RB / VB (emission in restricted band) | 120 KHz / 300 KHz  |

| Spectrum Parameter                    | Setting                                   |
|---------------------------------------|-------------------------------------------|
| Attenuation                           | Auto                                      |
| Detector                              | Peak                                      |
| Start Frequency                       | 1000 MHz(Peak/AV)                         |
| Stop Frequency                        | 10th carrier hamonic(Peak/AV)             |
| RB / VB (emission in restricted band) | 1 MHz / 3 MHz(Peak)<br>1 MHz/1/T MHz(AVG) |

#### For Restricted band

| Spectrum Parameter   | Setting                                                                |
|----------------------|------------------------------------------------------------------------|
| Detector             | Peak                                                                   |
| Start/Stop Frequency | Lower Band Edge: 2310 to 2410 MHz<br>Upper Band Edge: 2476 to 2500 MHz |
| RB / VB              | 1 MHz / 3 MHz(Peak)<br>1 MHz/1/T MHz(AVG)                              |



| Receiver Parameter     | Setting                              |
|------------------------|--------------------------------------|
| Attenuation            | Auto                                 |
| Start ~ Stop Frequency | 9kHz~90kHz / RB 200Hz for PK & AV    |
| Start ~ Stop Frequency | 90kHz~110kHz / RB 200Hz for QP       |
| Start ~ Stop Frequency | 110kHz~490kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 490kHz~30MHz / RB 9kHz for QP        |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP     |

### 3.2.2 TEST PROCEDURE

- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

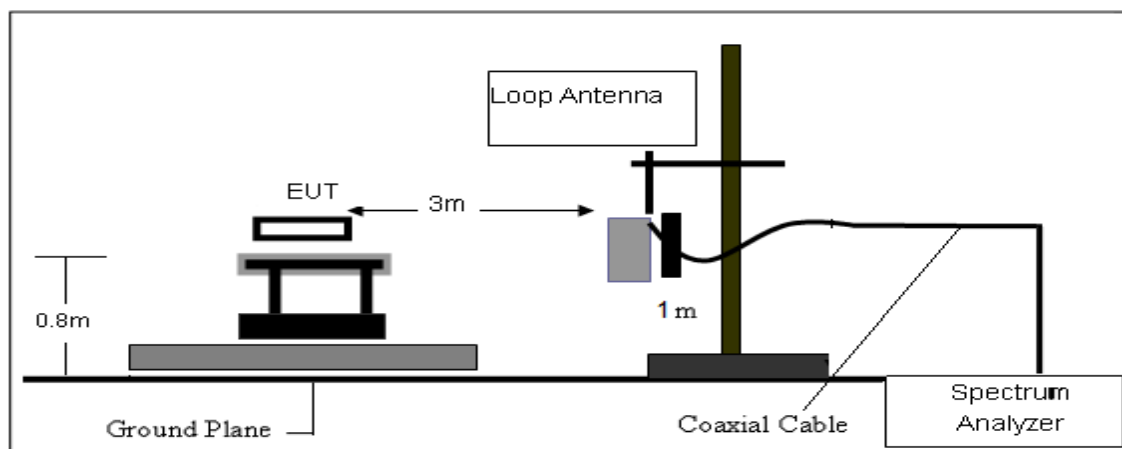
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

### 3.2.3 DEVIATION FROM TEST STANDARD

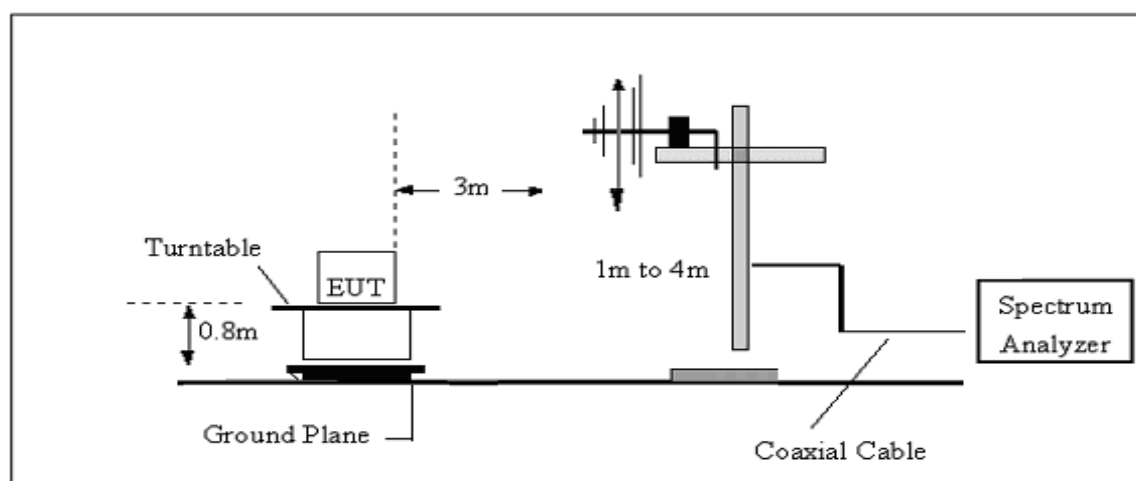
No deviation.

### 3.2.4 TESTSETUP

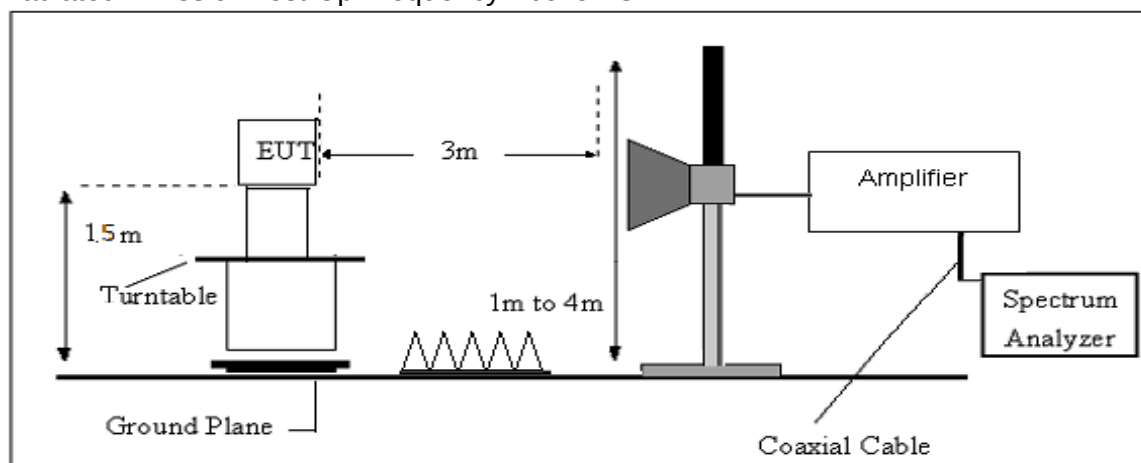
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



#### (C) Radiated Emission Test-Up Frequency Above 1GHz



### 3.2.5 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.



### 3.2.6 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

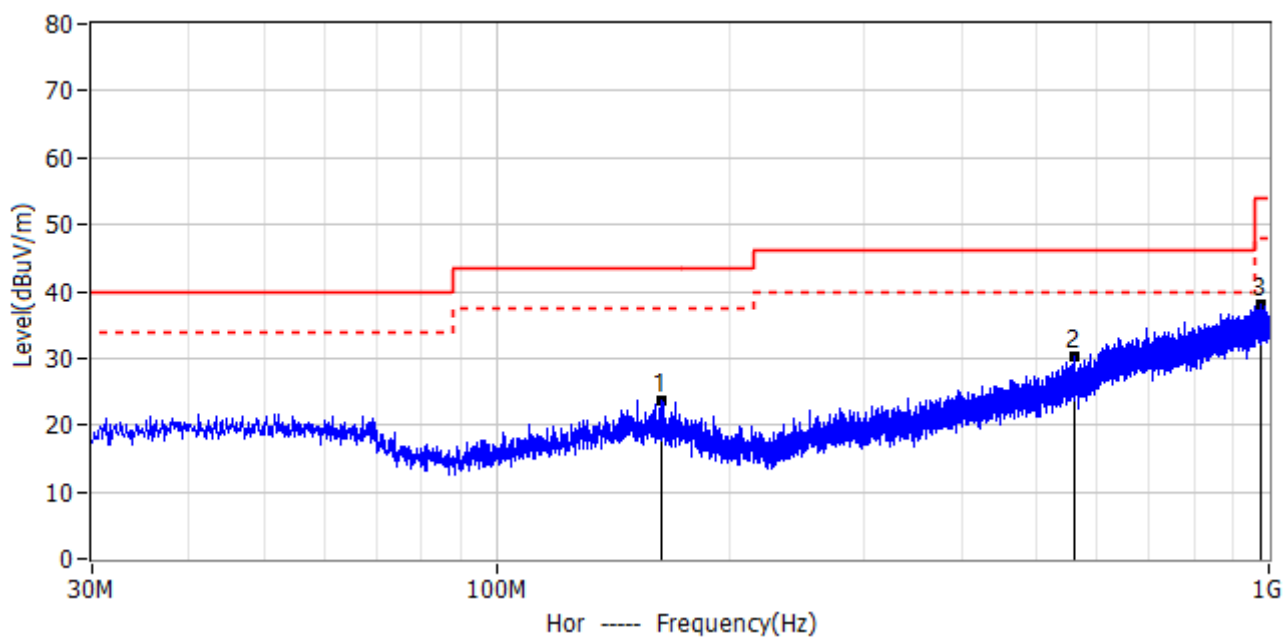
| Frequency | FS       | RA       | AF   | CL   | AG   | Factor |
|-----------|----------|----------|------|------|------|--------|
| (MHz)     | (dBμV/m) | (dBμV/m) | (dB) | (dB) | (dB) | (dB)   |
| 300       | 40       | 58.1     | 12.2 | 1.6  | 31.9 | -18.1  |

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



### 3.2.7 TEST RESULTS

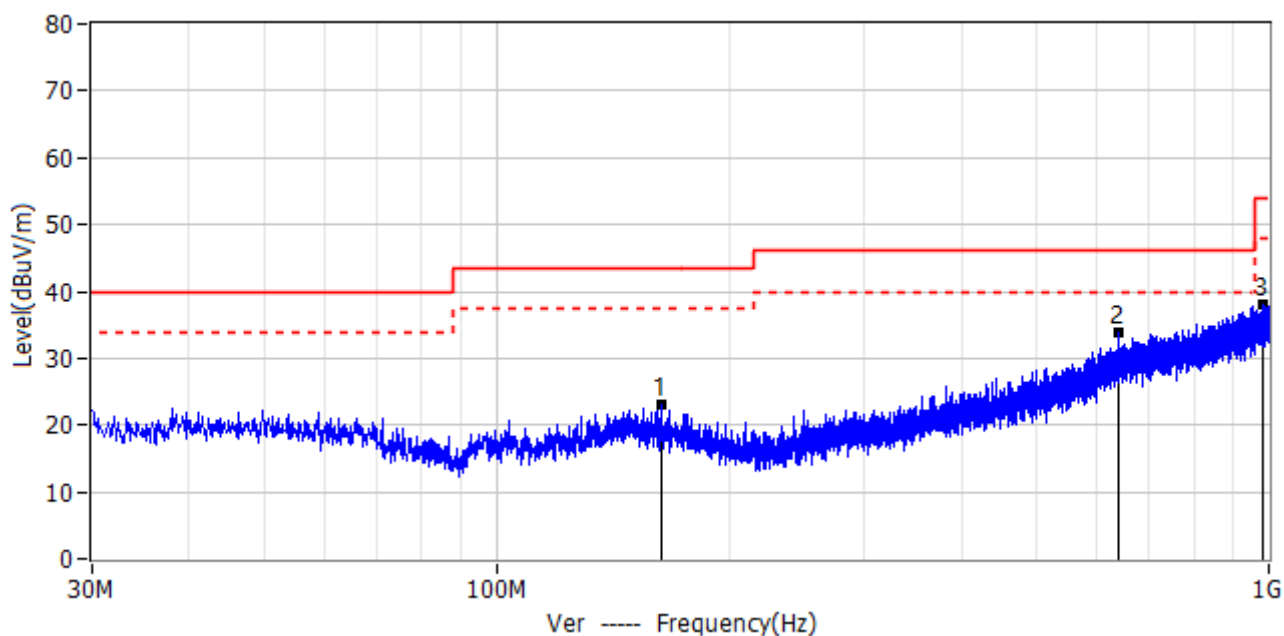
|                       |                          |
|-----------------------|--------------------------|
| Project: LGT23A020    | Test Engineer: Dylan.shi |
| EUT: Feature phone    | Temperature: 18.2°C      |
| M/N: INOI 105         | Humidity: 42RH%          |
| Test Voltage: Battery | Test Data: 2023-01-16    |
| Test Mode: BT TX      |                          |
| Note:                 |                          |



| No. | Frequency  | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|------------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1*  | 164.103MHz | 3.92            | 19.82          | 23.74           | 43.50           | -19.76       | PK       | Hor   |
| 2*  | 561.803MHz | 3.71            | 26.46          | 30.17           | 46.00           | -15.83       | PK       | Hor   |
| 3*  | 979.024MHz | 3.46            | 34.47          | 37.93           | 54.00           | -16.07       | PK       | Hor   |



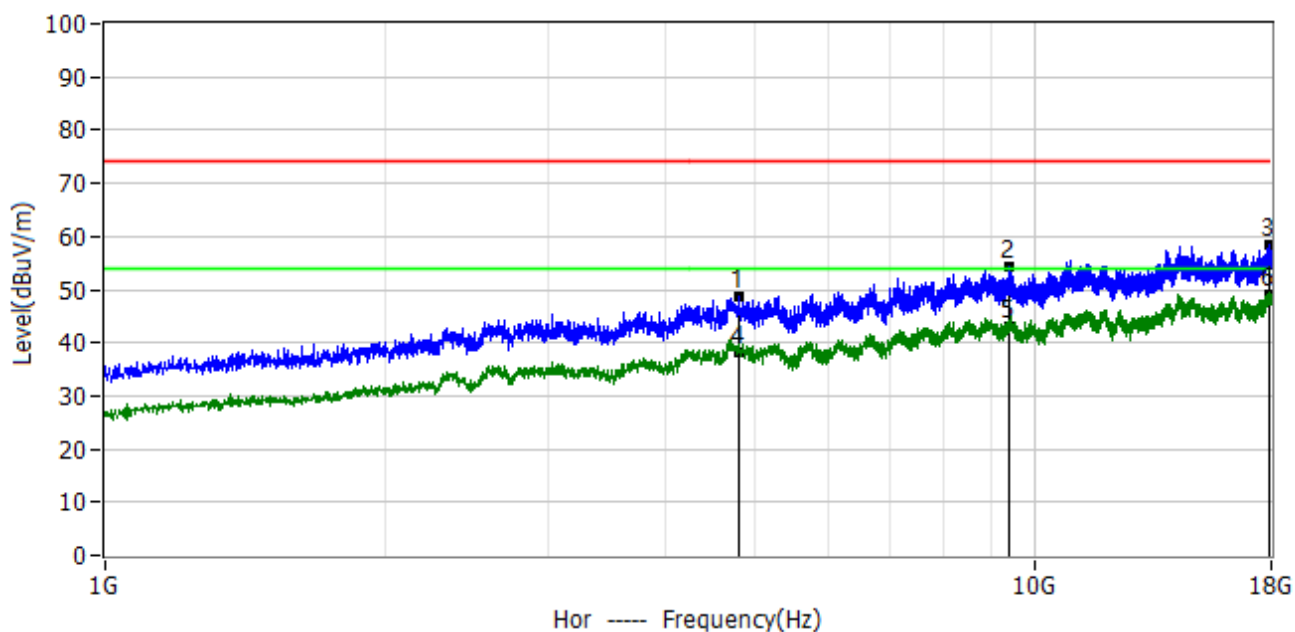
|                       |                          |
|-----------------------|--------------------------|
| Project: LGT23A020    | Test Engineer: Dylan.shi |
| EUT: Feature phone    | Temperature: 18.2°C      |
| M/N: INOI 105         | Humidity: 42RH%          |
| Test Voltage: Battery | Test Data: 2023-01-16    |
| Test Mode: BT TX      |                          |
| Note:                 |                          |



| No. | Frequency  | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|------------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1*  | 163.739MHz | 3.23            | 19.82          | 23.05           | 43.50           | -20.45       | PK       | Ver   |
| 2*  | 638.311MHz | 5.01            | 28.94          | 33.95           | 46.00           | -12.05       | PK       | Ver   |
| 3*  | 983.753MHz | 3.68            | 34.50          | 38.18           | 54.00           | -15.82       | PK       | Ver   |



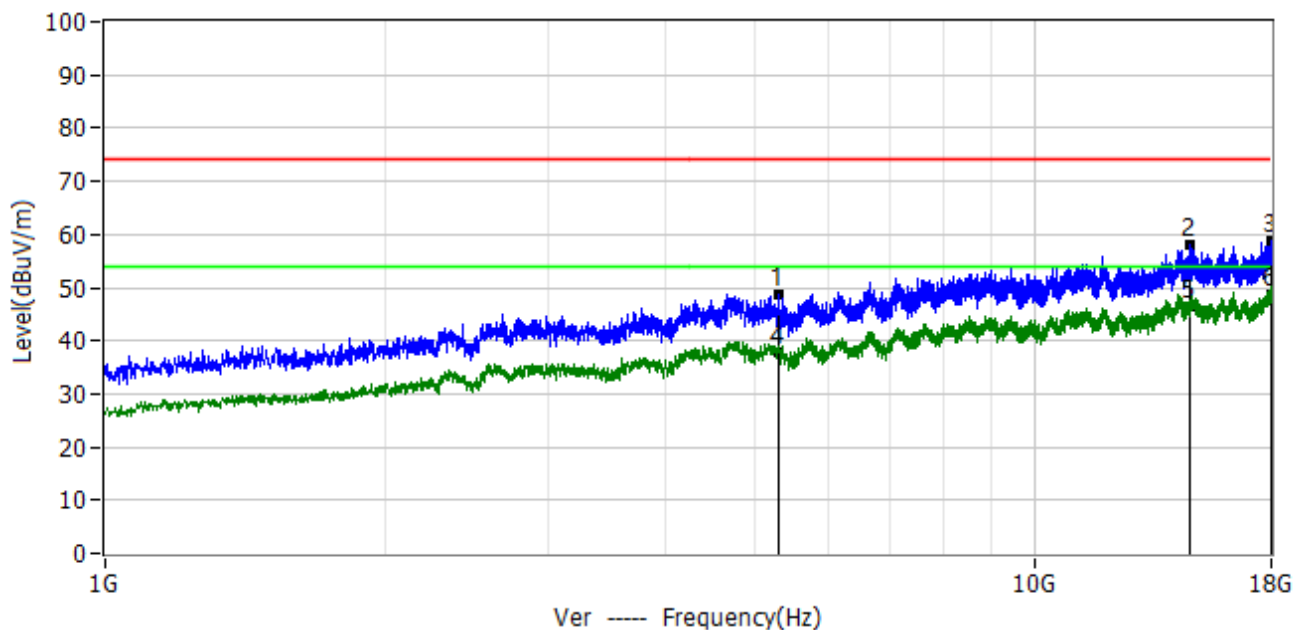
|                       |                          |
|-----------------------|--------------------------|
| Project: LGT23A020    | Test Engineer: Dylan.shi |
| EUT: Feature phone    | Temperature: 27.4°C      |
| M/N: INOI 105         | Humidity: 65%RH          |
| Test Voltage: Battery | Test Data: 2023-01-14    |
| Test Mode: DH5 2402   |                          |
| Note:                 |                          |



| No. | Frequency | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|-----------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1*  | 4.810GHz  | 54.86           | -5.99          | 48.87           | 74.00           | -25.13       | PK       | Hor   |
| 2*  | 9.396GHz  | 55.52           | -1.17          | 54.35           | 74.00           | -19.65       | PK       | Hor   |
| 3*  | 17.953GHz | 49.75           | 8.49           | 58.24           | 74.00           | -15.76       | PK       | Hor   |
| 4*  | 4.810GHz  | 44.09           | -5.99          | 38.10           | 54.00           | -15.90       | AV       | Hor   |
| 5*  | 9.396GHz  | 44.17           | -1.17          | 43.00           | 54.00           | -11.00       | AV       | Hor   |
| 6*  | 17.953GHz | 40.71           | 8.49           | 49.20           | 54.00           | -4.80        | AV       | Hor   |



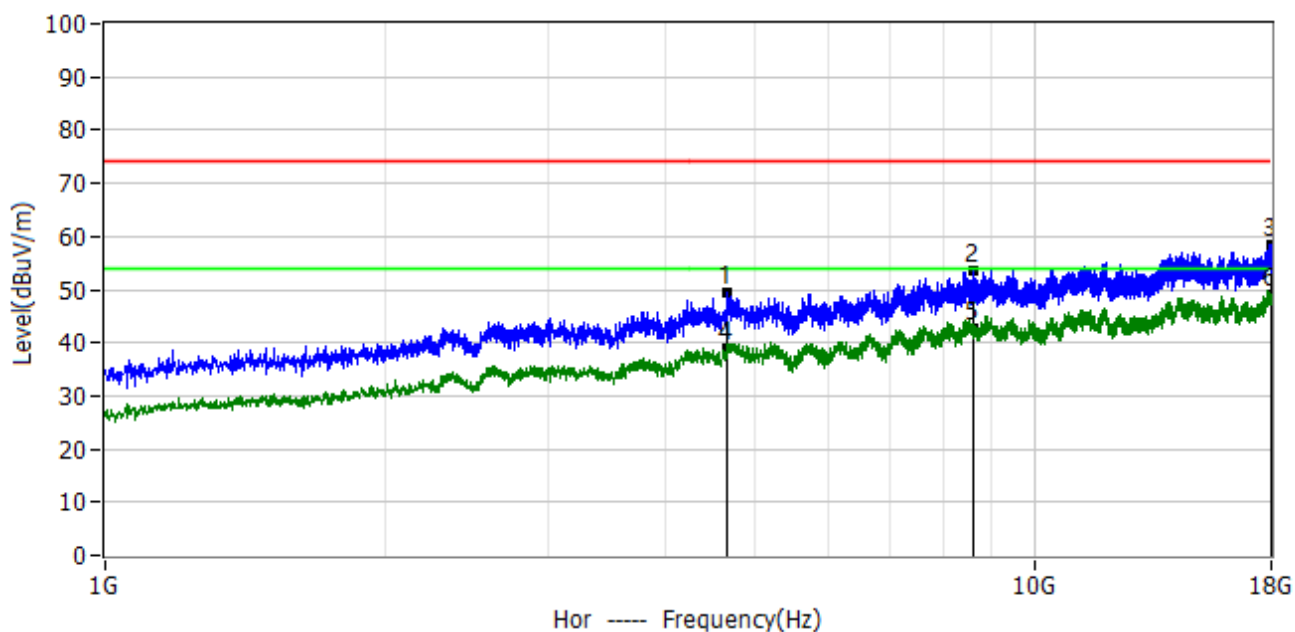
|                       |                          |
|-----------------------|--------------------------|
| Project: LGT23A020    | Test Engineer: Dylan.shi |
| EUT: Feature phone    | Temperature: 27.4°C      |
| M/N: INOI 105         | Humidity: 65%RH          |
| Test Voltage: Battery | Test Data: 2023-01-14    |
| Test Mode: DH5 2402   |                          |
| Note:                 |                          |



| No. | Frequency | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|-----------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 5.310GHz  | 55.80        | -7.13       | 48.67        | 74.00        | -25.33    | PK       | Ver   |
| 2*  | 14.715GHz | 52.02        | 5.93        | 57.95        | 74.00        | -16.05    | PK       | Ver   |
| 3*  | 17.987GHz | 50.36        | 8.51        | 58.87        | 74.00        | -15.13    | PK       | Ver   |
| 4*  | 5.310GHz  | 45.13        | -7.13       | 38.00        | 54.00        | -16.00    | AV       | Ver   |
| 5*  | 14.715GHz | 40.67        | 5.93        | 46.60        | 54.00        | -7.40     | AV       | Ver   |
| 6*  | 17.987GHz | 40.19        | 8.51        | 48.70        | 54.00        | -5.30     | AV       | Ver   |



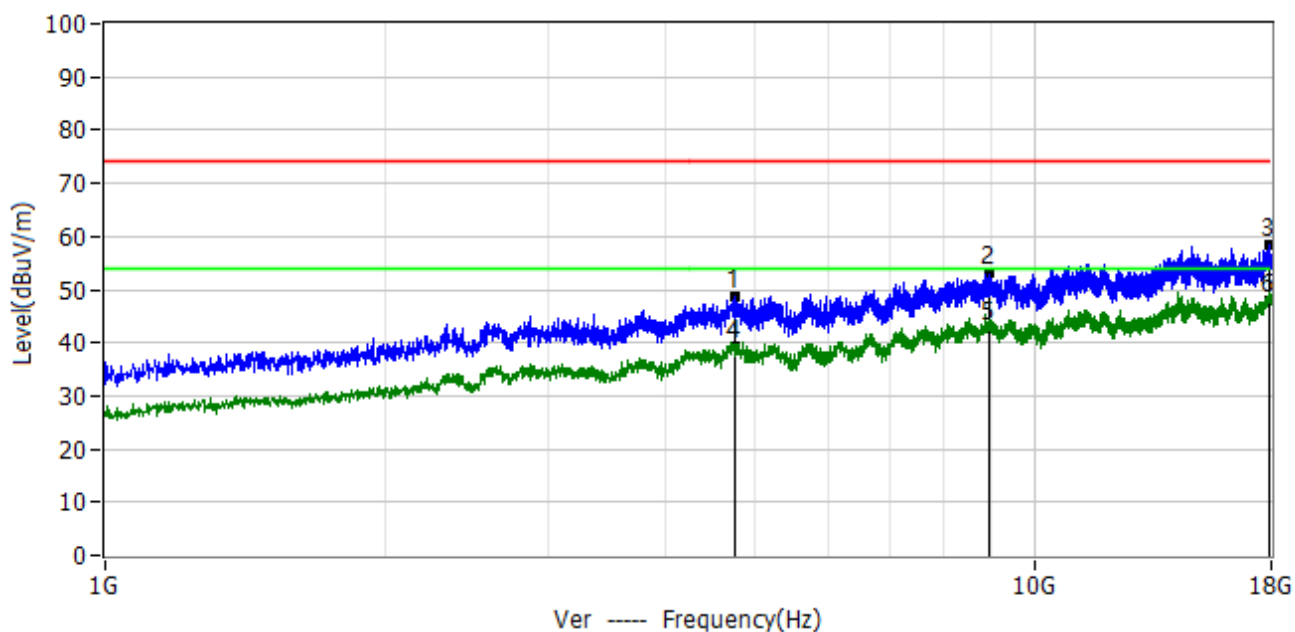
|                       |                          |
|-----------------------|--------------------------|
| Project: LGT23A020    | Test Engineer: Dylan.shi |
| EUT: Feature phone    | Temperature: 27.4°C      |
| M/N: INOI 105         | Humidity: 65%RH          |
| Test Voltage: Battery | Test Data: 2023-01-14    |
| Test Mode: DH5 2441   |                          |
| Note:                 |                          |



| No. | Frequency | Reading<br>dBuV | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Polar |
|-----|-----------|-----------------|----------------|-----------------|-----------------|--------------|----------|-------|
| 1*  | 4.678GHz  | 55.40           | -5.89          | 49.51           | 74.00           | -24.49       | PK       | Hor   |
| 2*  | 8.591GHz  | 56.01           | -2.33          | 53.68           | 74.00           | -20.32       | PK       | Hor   |
| 3*  | 17.962GHz | 50.04           | 8.49           | 58.53           | 74.00           | -15.47       | PK       | Hor   |
| 4*  | 4.678GHz  | 44.89           | -5.89          | 39.00           | 54.00           | -15.00       | AV       | Hor   |
| 5*  | 8.591GHz  | 44.93           | -2.33          | 42.60           | 54.00           | -11.40       | AV       | Hor   |
| 6*  | 17.962GHz | 40.41           | 8.49           | 48.90           | 54.00           | -5.10        | AV       | Hor   |



|                       |                          |
|-----------------------|--------------------------|
| Project: LGT23A020    | Test Engineer: Dylan.shi |
| EUT: Feature phone    | Temperature: 27.4°C      |
| M/N: INOI 105         | Humidity: 65%RH          |
| Test Voltage: Battery | Test Data: 2023-01-14    |
| Test Mode: DH5 2441   |                          |
| Note:                 |                          |



| No. | Frequency | Reading dBuV | Factor dB/m | Level dBuV/m | Limit dBuV/m | Margin dB | Detector | Polar |
|-----|-----------|--------------|-------------|--------------|--------------|-----------|----------|-------|
| 1*  | 4.753GHz  | 54.60        | -5.95       | 48.65        | 74.00        | -25.35    | PK       | Ver   |
| 2*  | 8.945GHz  | 54.32        | -1.32       | 53.00        | 74.00        | -21.00    | PK       | Ver   |
| 3*  | 17.887GHz | 50.02        | 8.44        | 58.46        | 74.00        | -15.54    | PK       | Ver   |
| 4*  | 4.753GHz  | 45.35        | -5.95       | 39.40        | 54.00        | -14.60    | AV       | Ver   |
| 5*  | 8.945GHz  | 43.92        | -1.32       | 42.60        | 54.00        | -11.40    | AV       | Ver   |
| 6*  | 17.887GHz | 39.66        | 8.44        | 48.10        | 54.00        | -5.90     | AV       | Ver   |