

# RF TEST REPORT

Product Name: Smart phone

Model Name: Luna

FCC ID: 2AK6CLUNA

Issued For : Shanghai Unihertz E-Commerce Co., Ltd

Room 308, Building C, 508Chundong Rd, Minhang district

Shanghai, China 201108

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: LGT23B010RF13

Sample Received Date: Feb. 09, 2023

Date of Test: Feb. 09, 2023 – Mar. 13, 2023

Date of Issue: Mar. 13, 2023

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# **TEST REPORT CERTIFICATION**

**Applicant** Shanghai Unihertz E-Commerce Co., Ltd

Room 308, Building C, 508Chundong Rd, Minhang district

Shanghai, China 201108

Manufacturer Shenzhen OBLUE Communication Technology Co., Ltd.

Room 702, Hepingdayou industrial and trade industrial park, No.

Address 41, Yonghe Road, Heping Community, Fuhai Street, Baoan

District, Shenzhen City, China

Product Name Smart phone

Trademark Unihertz, iHunt, 8849

Model Name Luna

Sample Status: Normal

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

Prepared by:

Zane Shan

Zane Shan

Engineer

Approved by:

Vita Li

Technical Director

Report No.: LGT23B010RF13 Page 2 of 62



Page 3 of 62

# **Table of Contents**

1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 TEST SOFTWARE AND POWER LEVEL	10
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	11
2.5 EQUIPMENTS LIST	12
3. EMC EMISSION TEST	13
3.1 CONDUCTED EMISSION MEASUREMENT	13
3.2 TEST PROCEDURE	14
3.3 TEST SETUP	14
3.4 EUT OPERATING CONDITIONS	14
4. RADIATED EMISSION MEASUREMENT	17
4.1 RADIATED EMISSION LIMITS	17
4.2 TEST PROCEDURE	19
4.3 TEST SETUP	20
4.4 EUT OPERATING CONDITIONS	20
4.5 FIELD STRENGTH CALCULATION	21
4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)	30
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	34
5.1 LIMIT	34
5.2 TEST PROCEDURE	34
5.3 TEST SETUP	34
5.4 EUT OPERATION CONDITIONS	34
5.5 TEST RESULTS	34
6. POWER SPECTRAL DENSITY TEST	35
6.1 LIMIT	35
6.2 TEST PROCEDURE	35
6.3 TEST SETUP	35
6.4 EUT OPERATION CONDITIONS	35
6.5 TEST RESULTS	35

Report No.: LGT23B010RF13



# **Table of Contents**

7. BANDWIDTH TEST	36
7.1 LIMIT	36
7.2 TEST PROCEDURE	36
7.3 TEST SETUP	36
7.4 EUT OPERATION CONDITIONS	36
7.5 TEST RESULTS	36
8. PEAK OUTPUT POWER TEST	37
8.1 LIMIT	37
8.2 TEST PROCEDURE	37
8.3 TEST SETUP	37
8.4 EUT OPERATION CONDITIONS	37
8.5 TEST RESULTS	37
9. ANTENNA REQUIREMENT	38
9.1 STANDARD REQUIREMENT	38
9.2 EUT ANTENNA	38
APPENDIX I:TEST RESULTS	39
DUTY CYCLE	39
MAXIMUM PEAK CONDUCTED OUTPUT POWER	42
-6DB BANDWIDTH	43
OCCUPIED CHANNEL BANDWIDTH	46
MAXIMUM POWER SPECTRAL DENSITY LEVEL	49
BAND EDGE	52
CONDUCTED RF SPURIOUS EMISSION	56
APPENDIX II: TEST PHOTO	61

Report No.: LGT23B010RF13 Page 4 of 62



# **Revision History**

Rev.	Issue Date	Contents
00	Mar. 13, 2023	Initial Issue

Report No.: LGT23B010RF13 Page 5 of 62



## 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)(2)	6dB Bandwidth	PASS			
15.247(b)(3)	Output Power	PASS			
15.209	Radiated Spurious Emission	PASS			
15.247(d)	Conducted Spurious & Band Edge Emission	PASS			
15.247(e)	Power Spectral Density	PASS			
15.205	Restricted Band Edge Emission	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.

Report No.: LGT23B010RF13 Page 6 of 62



### 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		
Accreditation Certificate	A2LA Certificate No.: 6727.01		

### 1.2 MEASUREMENT UNCERTAINTY

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

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

Report No.: LGT23B010RF13 Page 7 of 62



## 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smart phone			
Trademark	Unihertz, iHunt, 8849			
Model Name	Luna			
Series Model	N/A			
Model Difference	N/A			
	The EUT is a Smart phone Operation Frequency: Modulation Type:	2402~2480 MHz GFSK		
	Radio Technology:	BLE		
Product Description	Bluetooth Configuration:	BLE (1M PHY and 2M PHY)		
	Number Of Channel:	40		
	Antenna Designation:	Please refer to the Note 3.		
	Antenna Gain (dBi)	-1.3		
Channel List	Please refer to the Note 2.			
Adapter	Model: HJ-FC010K7-US Input: 100~240V, 50/60Hz, 0.6A Output: 5V, 2A OR 9V, 2A OR 12V, 1.5A			
Battery	Capacity: 5000mAh Rated Voltage: 3.87V			
Hardware Version	G68_V1.1			
Software Version	Luna _2023013113			
Connecting I/O Port(s)	Please refer to the Note 1.			

## Note:

Report No.: LGT23B010RF13 Page 8 of 62

<sup>1.</sup> 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)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

3.

## Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Maya	A68	PIFA	N/A	-1.3	BLE ANT

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

Report No.: LGT23B010RF13



### 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK
Mode 4	TX CH00(2402MHz)	2 MHz/GFSK
Mode 5	TX CH19(2440MHz)	2 MHz/GFSK
Mode 6	TX CH39(2480MHz)	2 MHz/GFSK

### Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We have be tested for all avaiable U.S. voltage and frequency (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 radited and RF conducted test.

### For AC Conducted Emission

Test Case		
AC Conducted Emission	Mode 7: Keeping BT TX	

### 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: BLE		
engineering mode	1M	Default	
	2M	Default	

Report No.: LGT23B010RF13 Page 10 of 62



### 2.4 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 HuaJin Electronjcs CO, LTD	HJ-FC010K7-US	N/A	Input: 100-240V ~ 50/60Hz 0.6A Output: 5V, 1A 9V, 2A 12V, 1.5A
USB-A to USB-C Cable	N/A	N/A	N/A	0.8m, shielded, without 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

### Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>®</sup> Length <sup>®</sup> column.
- (2) "YES" is means "with core"; "NO" is means "without core".

Report No.: LGT23B010RF13 Page 11 of 62



# 2.5 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	2022.06.02	2023.06.01	
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04	
Testing Software	EMC-I_V1.4.0.3_SKET					

Radiation Test equipment

Madiation rest equipmen	kadiation rest 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	2025.12.11				
Horn Antenna(18GHz)	Schwarzbeck	3115	10SL0060	2022.06.02	2025.06.01				
Horn Antenna(40 GHz)	A-INFO	LB-180400-KF	J211060273	2022.03.28	2025.03.27				
Pre-amplifier(3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10				
Pre-amplifier(26.5G)	Agilent	8449B	3008A4722	2022.04.12	2023.04.11				
Pre-amplifier(40 GHz)	com-mw	LNPA_18-40-01	18050001	2022.06.08	2023.06.07				
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	Tuna Na	Serial No.	Last	Calibrated	
	Manufacturer	Type No.	Serial No.	calibration	until	
Signal Generator	Keysight	sight N5182B MY59100717		2022.04.30	2023.04.29	
Signal Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28	
Temperature & Humidity	KTJ	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					

Report No.: LGT23B010RF13 Page 12 of 62



### 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 Emission limit (dBuV)		
FREQUENCT (MHZ)	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

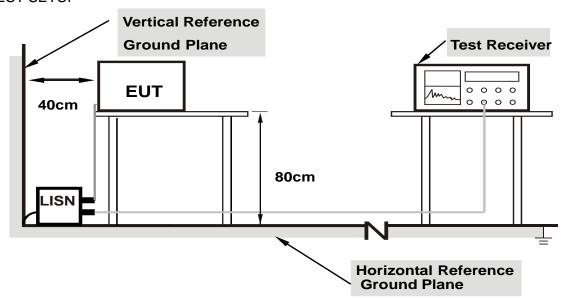
Report No.: LGT23B010RF13 Page 13 of 62



### 3.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 3.3 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.

### 3.4 EUT OPERATING CONDITIONS

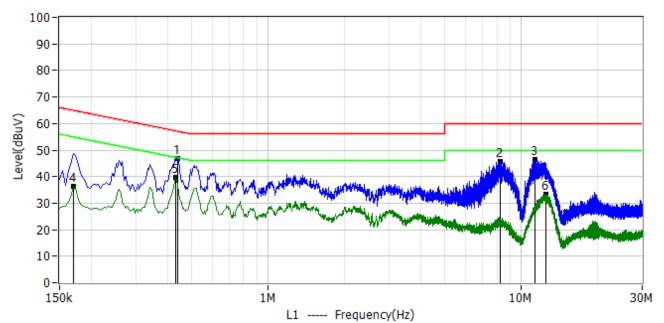
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

Report No.: LGT23B010RF13 Page 14 of 62



# 3.5 TEST RESULTS

Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 26.2°C
M/N: Luna	Humidity: 60%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-13
Test Mode: TX BLE	
Note:	

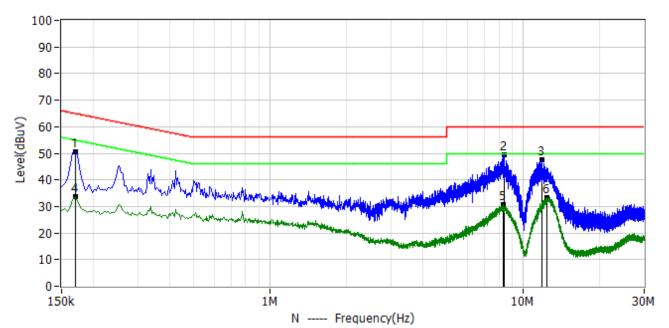


No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	438.000kHz	36.48	10.50	46.98	57.10	-10.12	PK	L1
2*	8.266MHz	34.90	10.91	45.81	60.00	-14.19	PK	L1
3*	11.302MHz	35.35	10.98	46.33	60.00	-13.67	PK	L1
4*	170.000kHz	25.66	10.50	36.16	54.96	-18.80	AV	L1
5*	430.000kHz	29.09	10.50	39.59	47.25	-7.66	AV	L1
6*	12.494MHz	22.37	11.00	33.37	50.00	-16.63	AV	L1

Report No.: LGT23B010RF13 Page 15 of 62



Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 26.2°C
M/N: Luna	Humidity: 60%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-02-13
Test Mode: TX BLE	
Note:	



No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	170.000kHz	39.88	10.50	50.38	64.96	-14.58	PK	N
2*	8.378MHz	38.67	10.92	49.59	60.00	-10.41	PK	N
3*	11.886MHz	36.75	10.99	47.74	60.00	-12.26	PK	N
4*	170.000kHz	23.17	10.50	33.67	54.96	-21.29	AV	N
5*	8.318MHz	19.69	10.92	30.61	50.00	-19.39	AV	N
6*	12.342MHz	22.24	11.00	33.24	50.00	-16.76	AV	N



### 4. RADIATED EMISSION MEASUREMENT

### 4.1 RADIATED EMISSION LIMITS

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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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				

Report No.: LGT23B010RF13 Page 17 of 62



# 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)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	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	120 KHz / 300 KHz	
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	1 MHz / 3 MHz(Peak)	
band)	1 MHz/1/T MHz(AVG)	

# For Restricted band

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz		
	Upper Band Edge: 2475 to 2500 MHz		
DD / V/D	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		

Report No.: LGT23B010RF13 Page 18 of 62

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7)

Receiver Parameter	Setting
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

#### 4.2 TEST PROCEDURE

- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. 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.
- c. 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.
- d. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

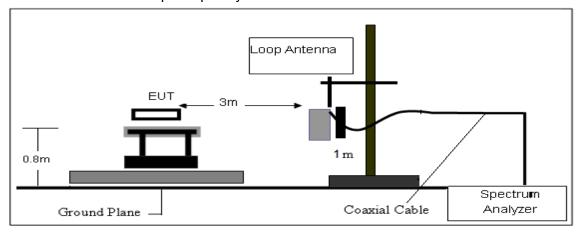
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Report No.: LGT23B010RF13 Page 19 of 62

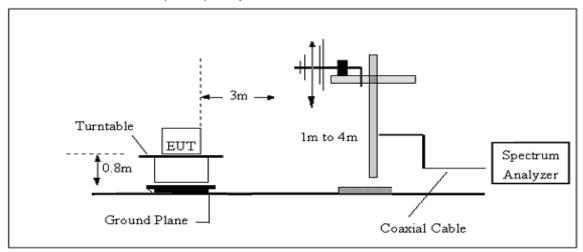


### 4.3 TEST SETUP

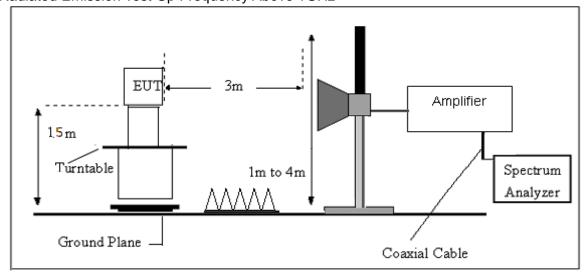
## (A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



# 4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.

Report No.: LGT23B010RF13 Page 20 of 62



### 4.5 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

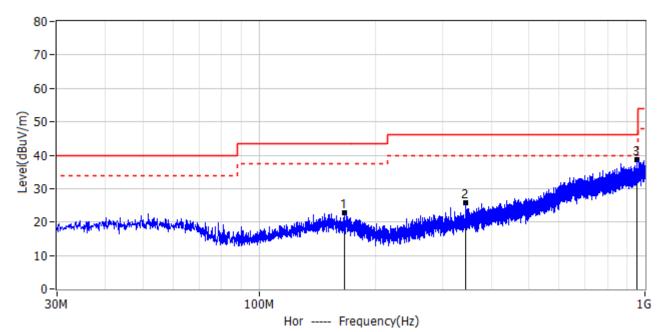
Factor=AF+CL-AG

Report No.: LGT23B010RF13 Page 21 of 62



## 4.6 TEST RESULTS

Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.4°C
M/N: Luna	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-02-16
Test Mode: TX BLE	
Note:	

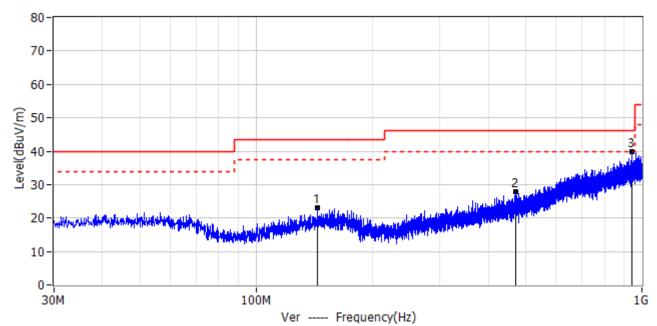


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	166.528MHz	2.83	19.80	22.63	43.50	-20.87	PK	Hor
2*	343.795MHz	4.63	21.07	25.70	46.00	-20.30	PK	Hor
3*	954.410MHz	4.71	34.04	38.75	46.00	-7.25	PK	Hor

Report No.: LGT23B010RF13 Page 22 of 62



Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.4°C
M/N: Luna	Humidity: 44%RH
Test Voltage: Battery	Test Data: 2023-02-16
Test Mode: TX BLE	
Note:	

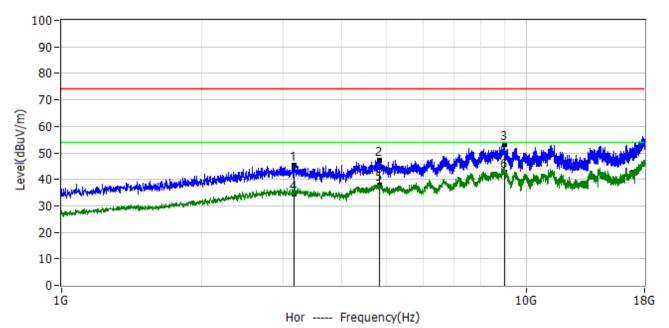


Reading Factor Level Limit Margin No. Frequency Detector Polar dB/m dBuV/m  $\mathsf{dBuV}$ dBuV/m dΒ -20.36 144.096MHz 1\* 3.71 19.43 23.14 43.50 PΚ Ver 2\* 471.350MHz 3.36 24.37 27.73 46.00 -18.27 PΚ Ver 3\* 940.224MHz 6.15 33.73 39.88 46.00 -6.12 PΚ Ver

Report No.: LGT23B010RF13 Page 23 of 62



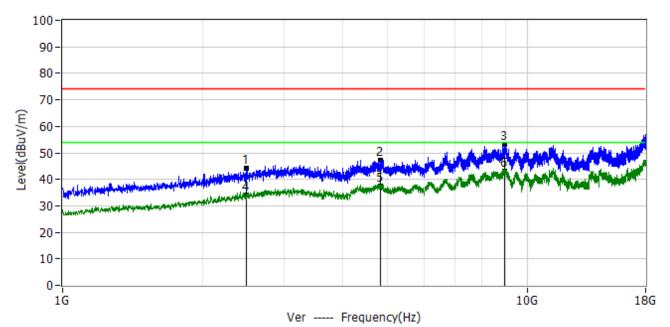
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.6°C
M/N: Luna	Humidity: 47%RH
Test Voltage: Battery	Test Data: 2023-02-17
Test Mode: BLE 1M 2402	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	3.161GHz	53.72	-8.39	45.33	74.00	-28.67	PK	Hor
2*	4.842GHz	53.22	-6.02	47.20	74.00	-26.80	PK	Hor
3*	9.003GHz	54.31	-1.17	53.14	74.00	-20.86	PK	Hor
4*	3.161GHz	42.79	-8.39	34.40	54.00	-19.60	AV	Hor
5*	4.842GHz	43.82	-6.02	37.80	54.00	-16.20	AV	Hor
6*	9.003GHz	43.97	-1.17	42.80	54.00	-11.20	AV	Hor



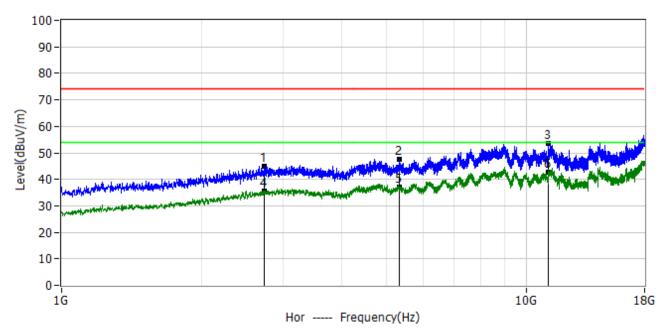
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.6°C
M/N: Luna	Humidity: 47%RH
Test Voltage: Battery	Test Data: 2023-02-17
Test Mode: BLE 1M 2402	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.492GHz	55.30	-11.07	44.23	74.00	-29.77	PK	Ver
2*	4.834GHz	53.36	-6.01	47.35	74.00	-26.65	PK	Ver
3*	8.928GHz	54.51	-1.37	53.14	74.00	-20.86	PK	Ver
4*	2.492GHz	45.27	-11.07	34.20	54.00	-19.80	AV	Ver
5*	4.834GHz	43.41	-6.01	37.40	54.00	-16.60	AV	Ver
6*	8.928GHz	44.27	-1.37	42.90	54.00	-11.10	AV	Ver



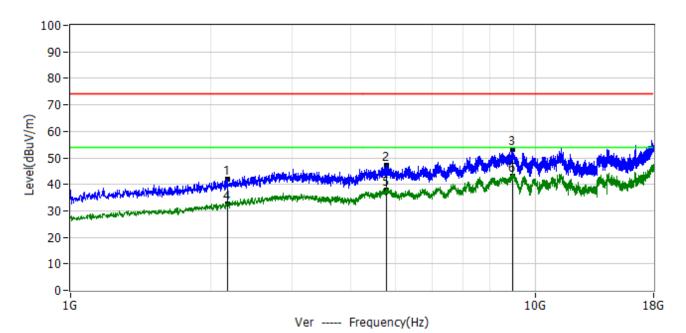
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.6°C
M/N: Luna	Humidity: 47%RH
Test Voltage: Battery	Test Data: 2023-02-17
Test Mode: BLE 1M 2440	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.728GHz	54.87	-9.78	45.09	74.00	-28.91	PK	Hor
2*	5.327GHz	54.67	-7.18	47.49	74.00	-26.51	PK	Hor
3*	11.164GHz	51.80	1.73	53.53	74.00	-20.47	PK	Hor
4*	2.728GHz	45.28	-9.78	35.50	54.00	-18.50	AV	Hor
5*	5.327GHz	44.08	-7.18	36.90	54.00	-17.10	AV	Hor
6*	11.164GHz	41.07	1.73	42.80	54.00	-11.20	AV	Hor



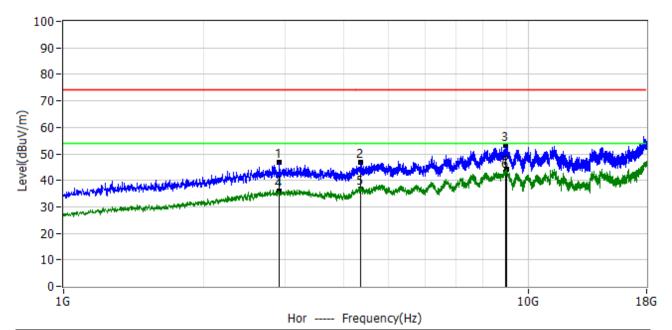
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.6°C
M/N: Luna	Humidity: 47%RH
Test Voltage: Battery	Test Data: 2023-02-17
Test Mode: BLE 1M 2440	
Note:	



Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
rrequericy	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	i Olai
2.175GHz	56.25	-14.39	41.86	74.00	-32.14	PK	Ver
4.778GHz	53.15	-5.97	47.18	74.00	-26.82	PK	Ver
8.939GHz	54.34	-1.34	53.00	74.00	-21.00	PK	Ver
2.175GHz	46.79	-14.39	32.40	54.00	-21.60	AV	Ver
4.778GHz	43.97	-5.97	38.00	54.00	-16.00	AV	Ver
8.939GHz	44.44	-1.34	43.10	54.00	-10.90	AV	Ver
	4.778GHz 8.939GHz 2.175GHz 4.778GHz	2.175GHz 56.25 4.778GHz 53.15 8.939GHz 54.34 2.175GHz 46.79 4.778GHz 43.97	dBuV         dB/m           2.175GHz         56.25         -14.39           4.778GHz         53.15         -5.97           8.939GHz         54.34         -1.34           2.175GHz         46.79         -14.39           4.778GHz         43.97         -5.97	dBuV         dB/m         dBuV/m           2.175GHz         56.25         -14.39         41.86           4.778GHz         53.15         -5.97         47.18           8.939GHz         54.34         -1.34         53.00           2.175GHz         46.79         -14.39         32.40           4.778GHz         43.97         -5.97         38.00	Frequency         dBuV         dB/m         dBuV/m         dBuV/m         dBuV/m           2.175GHz         56.25         -14.39         41.86         74.00           4.778GHz         53.15         -5.97         47.18         74.00           8.939GHz         54.34         -1.34         53.00         74.00           2.175GHz         46.79         -14.39         32.40         54.00           4.778GHz         43.97         -5.97         38.00         54.00	Hequency         dBuV         dB/m         dBuV/m         dBuV/m         dBuV/m         dB           2.175GHz         56.25         -14.39         41.86         74.00         -32.14           4.778GHz         53.15         -5.97         47.18         74.00         -26.82           8.939GHz         54.34         -1.34         53.00         74.00         -21.00           2.175GHz         46.79         -14.39         32.40         54.00         -21.60           4.778GHz         43.97         -5.97         38.00         54.00         -16.00	Frequency         dBuV         dB/m         dBuV/m         dBuV/m         dBuV/m         dB         Detector           2.175GHz         56.25         -14.39         41.86         74.00         -32.14         PK           4.778GHz         53.15         -5.97         47.18         74.00         -26.82         PK           8.939GHz         54.34         -1.34         53.00         74.00         -21.00         PK           2.175GHz         46.79         -14.39         32.40         54.00         -21.60         AV           4.778GHz         43.97         -5.97         38.00         54.00         -16.00         AV



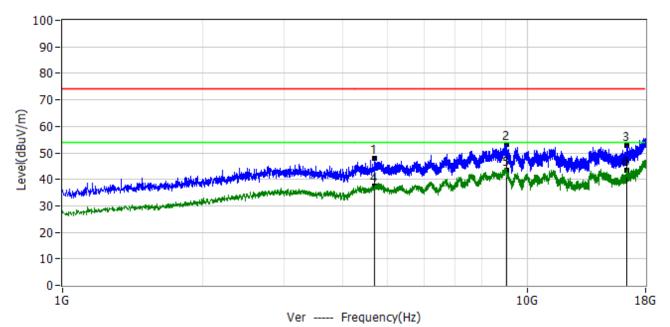
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.6°C
M/N: Luna	Humidity: 47%RH
Test Voltage: Battery	Test Data: 2023-02-17
Test Mode: BLE 1M 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.906GHz	55.55	-8.84	46.71	74.00	-27.29	PK	Hor
2*	4.349GHz	53.25	-6.39	46.86	74.00	-27.14	PK	Hor
3*	8.933GHz	54.47	-1.36	53.11	74.00	-20.89	PK	Hor
4*	2.906GHz	44.84	-8.84	36.00	54.00	-18.00	AV	Hor
5*	4.349GHz	43.09	-6.39	36.70	54.00	-17.30	AV	Hor
6*	8.933GHz	44.56	-1.36	43.20	54.00	-10.80	AV	Hor
7*	9.001GHz	45.33	-1.17	44.16	54.00	-9.84	AV	Hor



Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.6°C
M/N: Luna	Humidity: 47%RH
Test Voltage: Battery	Test Data: 2023-02-17
Test Mode: BLE 1M 2480	
Note:	

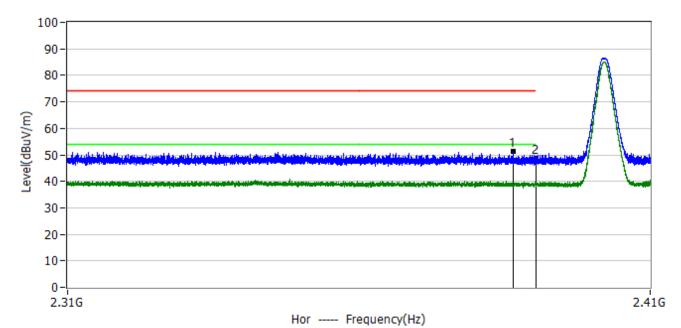


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	4.695GHz	53.74	-5.91	47.83	74.00	-26.17	PK	Ver
2*	9.016GHz	54.44	-1.17	53.27	74.00	-20.73	PK	Ver
3*	16.370GHz	45.84	6.84	52.68	74.00	-21.32	PK	Ver
4*	4.695GHz	43.31	-5.91	37.40	54.00	-16.60	AV	Ver
5*	9.016GHz	44.57	-1.17	43.40	54.00	-10.60	AV	Ver
6*	16.370GHz	36.76	6.84	43.60	54.00	-10.40	AV	Ver



# 4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)

Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.8°C
M/N: Luna	Humidity: 45%RH
Test Voltage: Battery	Test Data: 2023-03-11
Test Mode: BLE 1M 2402	
Note:	

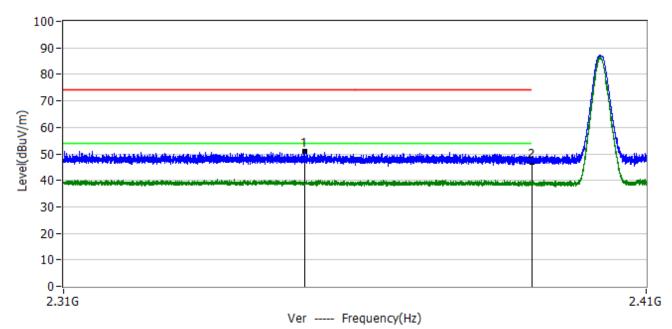


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3861GHz	17.21	33.96	51.17	74.00	-22.83	PK	Hor
2*	2.3900GHz	14.75	33.95	48.70	74.00	-25.30	PK	Hor

Report No.: LGT23B010RF13 Page 30 of 62



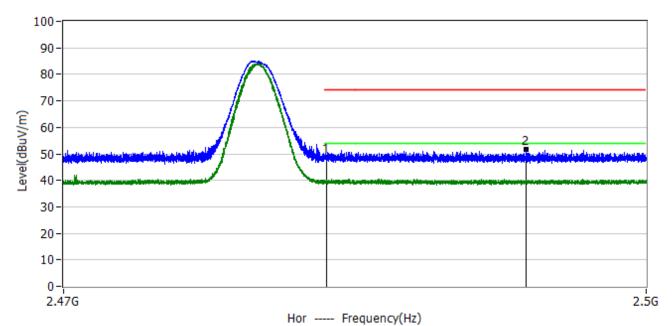
Project: LGT23B010	Test Engineer: Dylan.shi
EUT: Smart phone	Temperature: 24.8°C
M/N: Luna	Humidity: 45%RH
Test Voltage: Battery	Test Data: 2023-03-11
Test Mode: BLE 1M 2402	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.3508GHz	17.06	34.05	51.11	74.00	-22.89	PK	Ver
2*	2.3900GHz	12.75	33.95	46.70	74.00	-27.30	PK	Ver



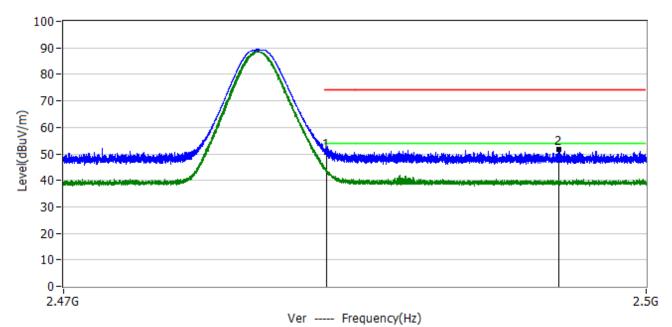
Project: LGT23B010	Test Engineer: Dylan.shi	
EUT: Smart phone	Temperature: 24.8°C	
M/N: Luna	Humidity: 45%RH	
Test Voltage: Battery	Test Data: 2023-03-11	
Test Mode: BLE 1M 2480		
Note:		



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	14.57	34.13	48.70	74.00	-25.30	PK	Hor
2*	2.4938GHz	17.47	34.15	51.62	74.00	-22.38	PK	Hor



Project: LGT23B010	Test Engineer: Dylan.shi	
EUT: Smart phone	Temperature: 24.8°C	
M/N: Luna	Humidity: 45%RH	
Test Voltage: Battery	Test Data: 2023-03-11	
Test Mode: BLE 1M 2480		
Note:		



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4835GHz	16.27	34.13	50.40	74.00	-23.60	PK	Ver
2*	2.4955GHz	17.55	34.15	51.70	74.00	-22.30	PK	Ver



### 5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

### 5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

### **5.2 TEST PROCEDURE**

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

### For Band edge

Spectrum Parameter	Setting
Detector	Peak
Ctart/Ctan Fraguency	Lower Band Edge: 2300 – 2407 MHz
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

### 5.3 TEST SETUP



The EUT which is powered by the \${ POWER BY}, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

### 5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

#### 5.5 TEST RESULTS

For the measurement records, refer to the appendix I.

Report No.: LGT23B010RF13 Page 34 of 62



### 6. POWER SPECTRAL DENSITY TEST

### 6.1 LIMIT

FCC Part 15.247, Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS			

### **6.2 TEST PROCEDURE**

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to:  $100 \text{ kHz} \ge \text{RBW} \ge 3 \text{ kHz}$ .
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 6.3 TEST SETUP



### 6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

### 6.5 TEST RESULTS

For the measurement records refer to the appendix I.

Report No.: LGT23B010RF13 Page 35 of 62



### 7. BANDWIDTH TEST

### **7.1 LIMIT**

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

### 7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

### 7.3 TEST SETUP



# 7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

### 7.5 TEST RESULTS

For the measurement records refer to the appendix I.

Report No.: LGT23B010RF13 Page 36 of 62



#### 8. PEAK OUTPUT POWER TEST

#### 8.1 LIMIT

FCC Part 15.247,Subpart C								
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS				

#### 8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

#### RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW ≥ DTS bandwidth.
- b) Set VBW ≥ [3 × RBW].
- c) Set span ≥ [3 × RBW].
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

- a) Set the RBW = 1 MHz.
- b) Set the VBW  $\geq$  [3  $\times$  RBW].
- c) Set the span  $\geq$  [1.5 × DTS bandwidth].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

### PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

### 8.3 TEST SETUP



#### 8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

### 8.5 TEST RESULTS

For the measurement records refer to the appendix I.

Report No.: LGT23B010RF13 Page 37 of 62



### 9. ANTENNA REQUIREMENT

### 9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 9.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.

Report No.: LGT23B010RF13 Page 38 of 62



# **APPENDIX I:TEST RESULTS**

# Duty Cycle

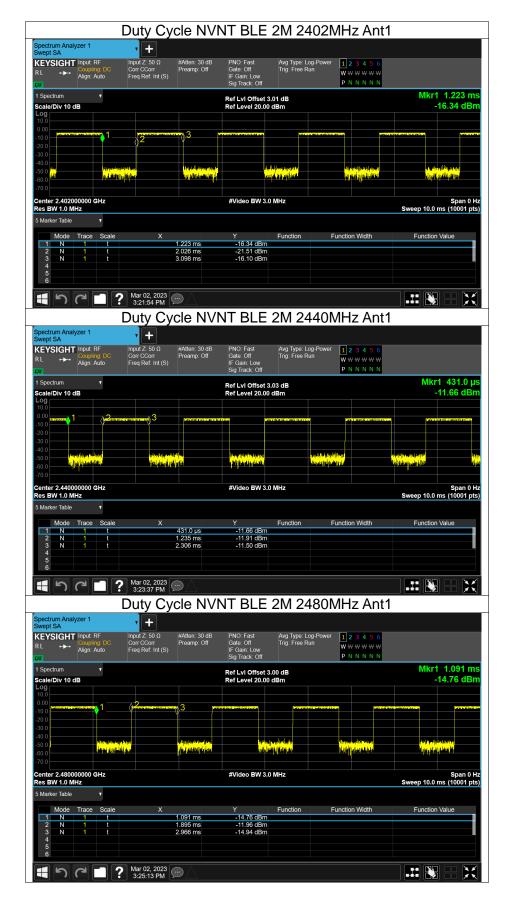
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	85.08	0.7	0.47
NVNT	BLE 1M	2440	Ant1	85.12	0.7	0.47
NVNT	BLE 1M	2480	Ant1	85.12	0.7	0.47
NVNT	BLE 2M	2402	Ant1	57.17	2.43	0.93
NVNT	BLE 2M	2440	Ant1	57.12	2.43	0.93
NVNT	BLE 2M	2480	Ant1	57.12	2.43	0.93

Report No.: LGT23B010RF13 Page 39 of 62











## Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-3.7	30	Pass
NVNT	BLE 1M	2440	Ant1	-2.4	30	Pass
NVNT	BLE 1M	2480	Ant1	-3.93	30	Pass
NVNT	BLE 2M	2402	Ant1	-3.73	30	Pass
NVNT	BLE 2M	2440	Ant1	-2.45	30	Pass
NVNT	BLE 2M	2480	Ant1	-3.92	30	Pass

Report No.: LGT23B010RF13 Page 42 of 62



### -6dB Bandwidth

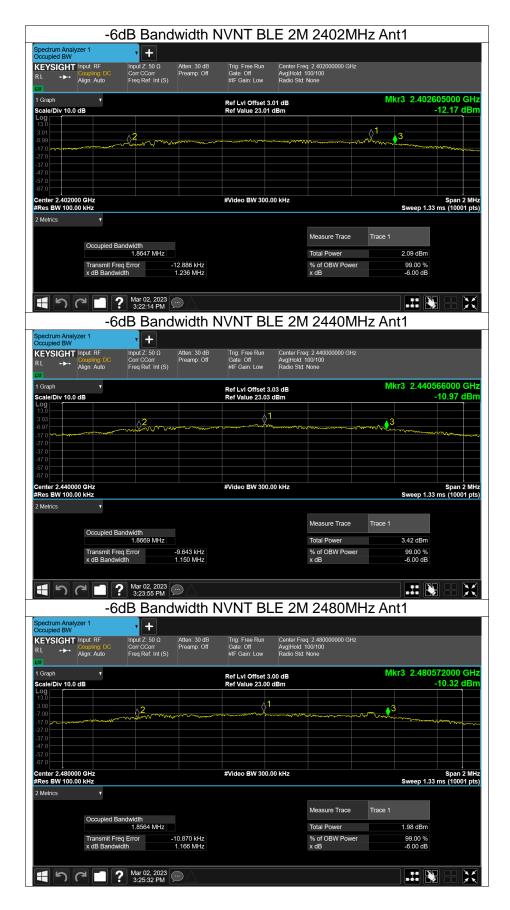
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.658	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.657	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.704	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.236	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.15	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.166	0.5	Pass

Report No.: LGT23B010RF13 Page 43 of 62











## Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.042
NVNT	BLE 1M	2440	Ant1	1.04
NVNT	BLE 1M	2480	Ant1	1.046
NVNT	BLE 2M	2402	Ant1	2.066
NVNT	BLE 2M	2440	Ant1	2.071
NVNT	BLE 2M	2480	Ant1	2.064

Report No.: LGT23B010RF13 Page 46 of 62









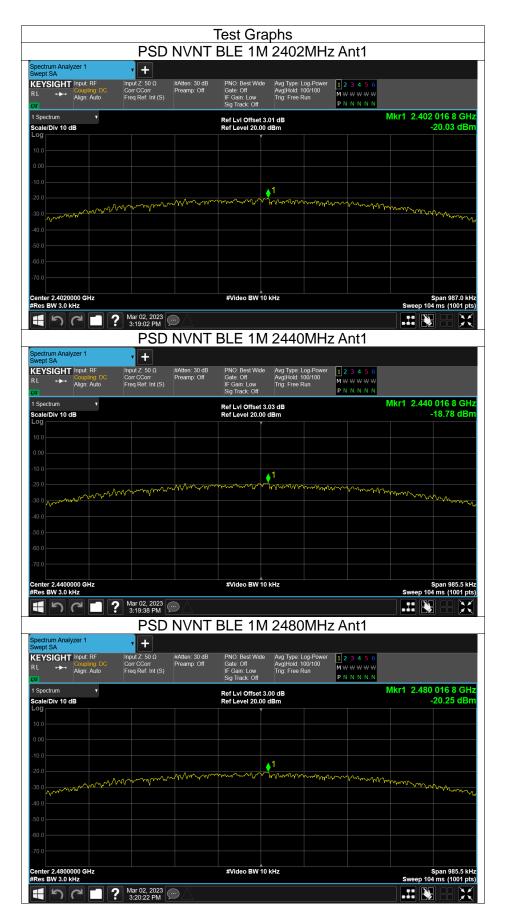


# Maximum Power Spectral Density Level

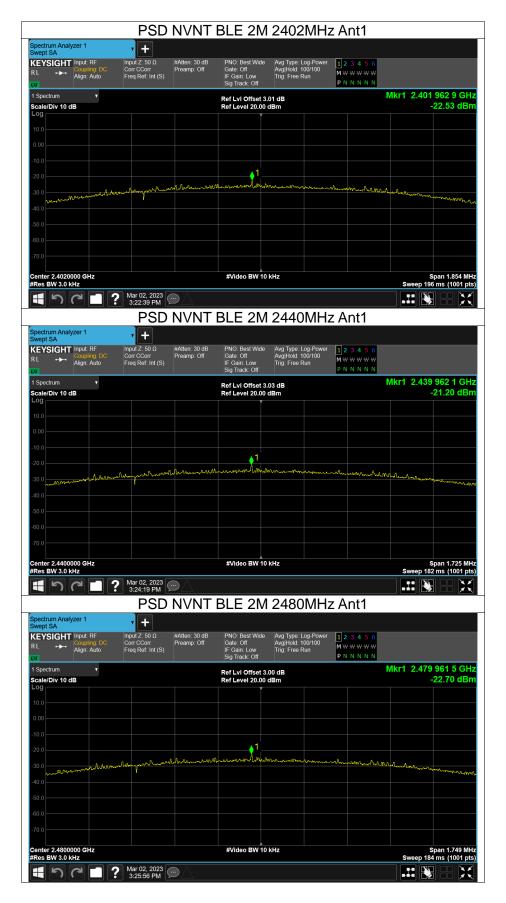
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-20.03	8	Pass
NVNT	BLE 1M	2440	Ant1	-18.78	8	Pass
NVNT	BLE 1M	2480	Ant1	-20.25	8	Pass
NVNT	BLE 2M	2402	Ant1	-22.53	8	Pass
NVNT	BLE 2M	2440	Ant1	-21.21	8	Pass
NVNT	BLE 2M	2480	Ant1	-22.7	8	Pass

Report No.: LGT23B010RF13 Page 49 of 62









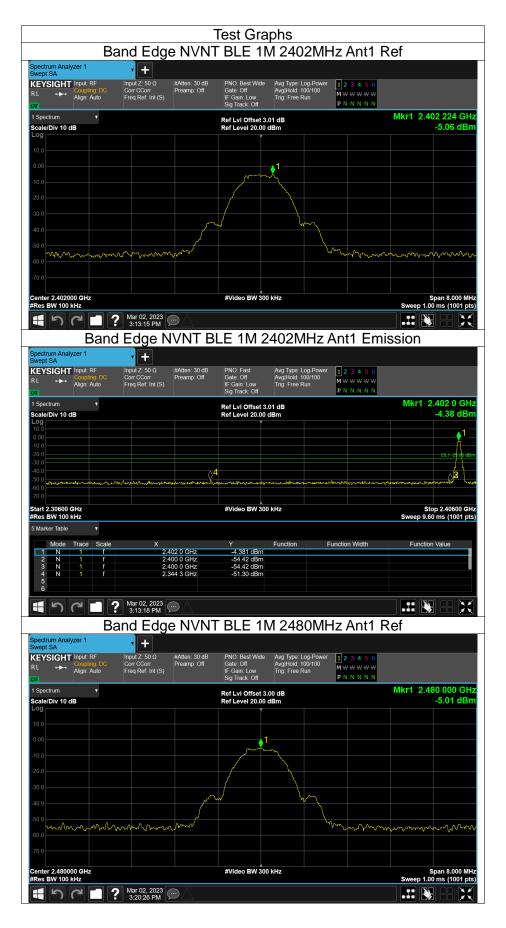


# Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-46.23	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.38	-20	Pass
NVNT	BLE 2M	2402	Ant1	-30.94	-20	Pass
NVNT	BLE 2M	2480	Ant1	-44.75	-20	Pass

Report No.: LGT23B010RF13 Page 52 of 62

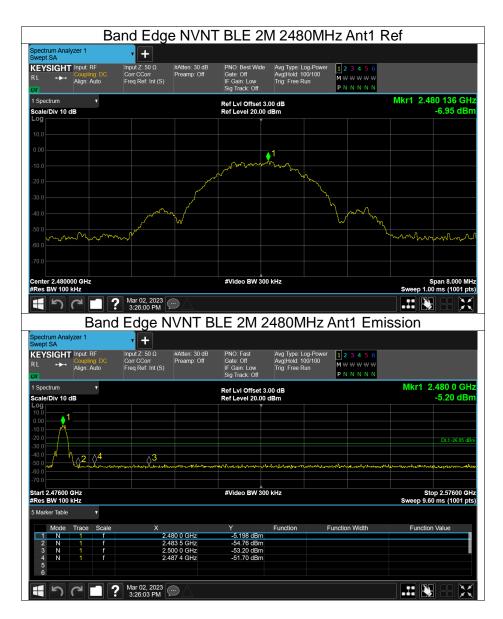














## Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-50.97	-20	Pass
NVNT	BLE 1M	2440	Ant1	-41.96	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.4	-20	Pass
NVNT	BLE 2M	2402	Ant1	-48.09	-20	Pass
NVNT	BLE 2M	2440	Ant1	-50.11	-20	Pass
NVNT	BLE 2M	2480	Ant1	-49.93	-20	Pass

Report No.: LGT23B010RF13 Page 56 of 62





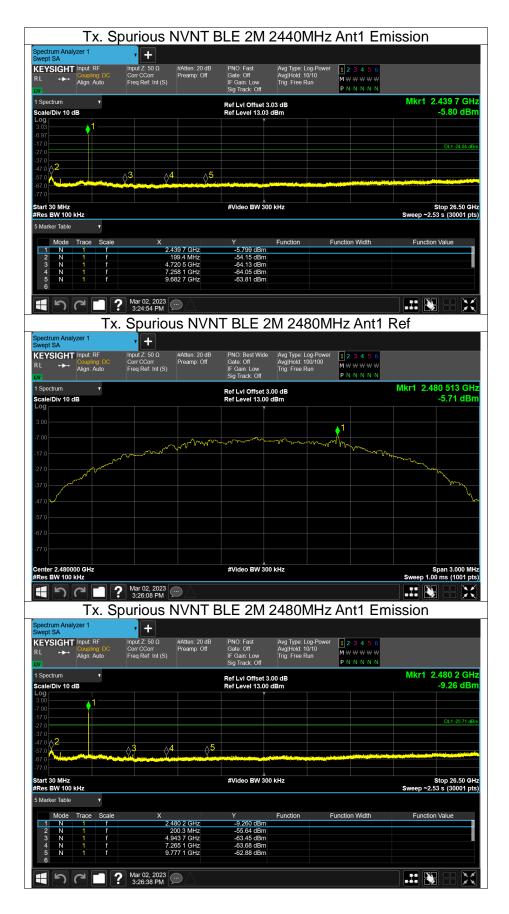












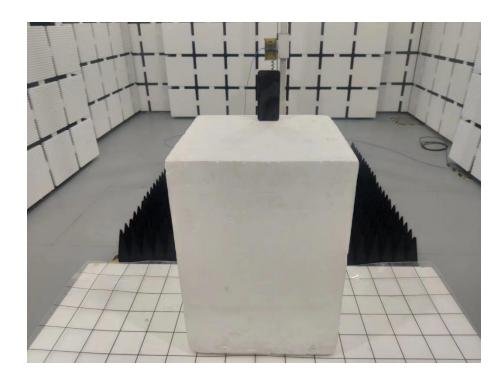


# **APPENDIX II: TEST PHOTO**

### Radiated Spurious Emission Test Setup Photo - Below 1GHz



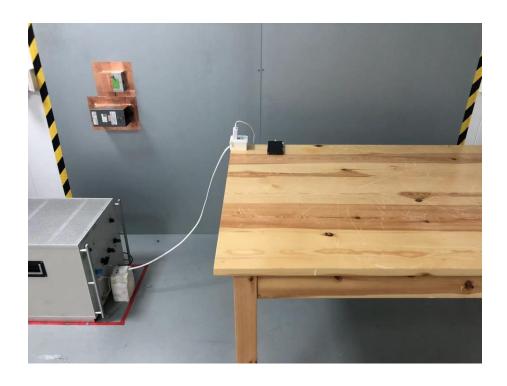
Radiated Spurious Emission Test Setup Photo - Above 1GHz



Report No.: LGT23B010RF13 Page 61 of 62



## **Conducted Emission Test Setup Photo**



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

Report No.: LGT23B010RF13 Page 62 of 62