

# **EMC TEST REPORT**

Product Name: 5G Smart phone

Model Name: TANK3 PRO, TANK3, Titan P30000 Ultra 5G

FCC ID: 2BAVY-TANK3PRO

Issued For : Shenzhen OBLUE Communication Technology Co., Ltd.

Room 702, Hepingdayou industrial and trade industrial park, No. 41, Yonghe Road, Heping Community, Fuhai Street, Baoan

District, Shenzhen City, China

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

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan

District, Shenzhen, Guangdong, China

Report Number: LGT24B027EM04

Sample Received Date: Feb. 26, 2024

Date of Test: Feb. 26, 2024 – Apr. 08, 2024

Date of Issue: Apr. 08, 2024

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### **TEST REPORT CERTIFICATION**

**Applicant:** Shenzhen OBLUE Communication Technology Co., Ltd.

Room 702, Hepingdayou industrial and trade industrial park, No. 41,

Address: Yonghe Road, Heping Community, Fuhai Street, Baoan District,

Shenzhen City, China

Manufacturer: Shenzhen OBLUE Communication Technology Co., Ltd.

Room 702, Hepingdayou industrial and trade industrial park, No. 41,

Address: Yonghe Road, Heping Community, Fuhai Street, Baoan District,

Shenzhen City, China

Product Name: 5G Smart phone

Trademark: 8849, Unihertz, iHunt

Model Name: TANK3 PRO, TANK3, Titan P30000 Ultra 5G

Sample Status: Normal

APPLICABLE STANDARDS			
STANDARD	TEST RESULTS		
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	PASS		

Prepared by:

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Engineer

Approved by:

Vita Li

Technical Director

Report No.: LGT24B027EM04 Page 2 of 21



### **Table of Contents**

1. TEST SUMMARY	5
1.1 TEST LABORATORY	6
1.2 MEASUREMENT UNCERTAINTY	6
2. GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF THE EUT	7
2.2 DESCRIPTION OF THE TEST MODES	8
2.3 DESCRIPTION OF THE SUPPORT UNITS	8
2.4 MEASUREMENT INSTRUMENTS LIST	9
3. EMC EMISSION TEST	10
3.1 CONDUCTED EMISSION MEASUREMENT	10
3.2 RADIATED EMISSION MEASUREMENT	14
APPENDIX I - TEST SETUP	20

Report No.: LGT24B027EM04 Page 3 of 21



### **Revision History**

Rev.	Issue Date	Revisions
00	Apr. 08, 2024	Initial Issue

Report No.: LGT24B027EM04 Page 4 of 21



#### 1. TEST SUMMARY

EMC Emission					
Standard Test Item Limit Judgement Remark					
	Conducted Emissions	Class B	PASS		
FCC 47 CFR Part 15 Subpart B ANSI C63.4-2014	Radiated Emissions Below 1GHz	Class B	PASS		
	Radiated Emissions Above 1GHz	Class B	PASS	Note 1 Note 2	

#### Note:

- 1 "N/A" denotes test is not applicable in this Test Report
- 2 If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

Report No.: LGT24B027EM04 Page 5 of 21



### 1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.		
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China		
	A2LA Certificate No.: 6727.01		
Accreditation Certificate	FCC Registration No.: 746540		
	CAB ID: CN0136		

#### 1.2 MEASUREMENT UNCERTAINTY

Test Item	Measurement Frequency Range MHz	Uncertainty dB
Conducted Emissions at AC mains power port	0.009 ~ 30	2.80
Radiated Emissions	0.009 ~ 30	2.16
Radiated Emissions	30 ~ 1000	4.40
Radiated Emissions	1000 ~ 18000	5.49

Note: 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2. The measurement uncertainty is not included in the test result.

Report No.: LGT24B027EM04 Page 6 of 21



### 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	5G Smart phone
Trademark:	8849, Unihertz, iHunt
Model Name:	TANK3 PRO
Series Model:	TANK3, Titan P30000 Ultra 5G
Model Difference:	Different brand and model name TANK3 and Titan P30000 Ultra 5G support laser ranging, TANK3 PRO support projection
Adapter:	Model: HJ-PD120W-US Input: 100-240V, 50/60Hz, 1.8A Output: 5V, 3A, OR 9V,3A, OR 12V,3A, OR 15V,3A, OR 20V,5A, PPS:3.6V-20V,6A 120W MAX
Battery:	Rated Capacity: 10500mAh Rated Voltage: 7.74V
Test Voltage:	AC 120V/60Hz Battery: 7.74V
Hardware Version:	G91_V3.2
Software Version:	TANK3 PRO_20240216

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

Report No.: LGT24B027EM04 Page 7 of 21



#### 2.2 DESCRIPTION OF THE TEST MODES

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

Test Mode	Description
Mode 1	Charging+GSM link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 2	Charging+WCDMA link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 3	Charging+LTE link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone
Mode 4	USB Data Transmission

Note: Only the data of worst-case mode 1 was recorded in this report.

#### 2.3 DESCRIPTION OF THE 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 Electronics Co., Ltd	HJ-PD120W- US	N/A	Input: 100-240V ~ 50/60Hz 1.8A Output: 5V, 3A, OR 9V,3A, OR 12V,3A, OR 15V,3A, OR 20V,5A, PPS:3.6V,6A 120W MAX
USB-C to USB- C Cable	N/A	N/A	N/A	1m, shielded, without ferrite core

**Auxiliary Equipment** 

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	HKF-16	N/A	N/A
Earphone	VESAFE	39630078	N/A	N/A

#### Note:

(1) For detachable type I/O cable should be specified the length in cm in Length column.

Report No.: LGT24B027EM04 Page 8 of 21



# 2.4 MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software		EMC-I_V	1.4.0.3_SKET		
Radiated Emission		_			
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Spectrum Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.08.14	2024.08.13
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Bilog Antenna	SCHWARZBECK	VULB 9168	01447	2022.12.12	2025.12.11
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2024.03.09	2025.03.08
Pre-amplifier (1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I V1.4.0.3 SKET				

Report No.: LGT24B027EM04 Page 9 of 21



#### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

#### **3.1.1 LIMITS**

	Conducted Emission Limits (dBuV)				
FREQUENCY (MHz)	Class A		Class B		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 ~ 0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.5 ~ 5	73.00	60.00	56.00	46.00	
5 ~ 30	73.00	60.00	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.
- (3) The test result calculated as following:

  Measurement Value = Reading Level + Correct Factor

  Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor

  Margin Level = Measurement Value Limit Value

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

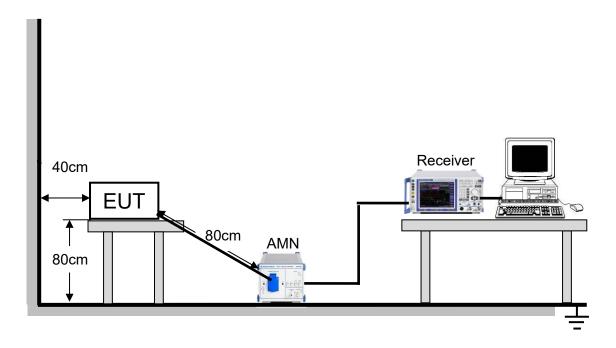
#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 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 at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT Test Photos.

Report No.: LGT24B027EM04 Page 10 of 21



### **3.1.3 TEST SETUP**

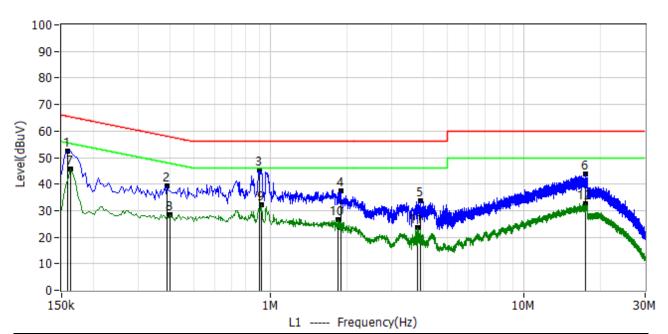


Report No.: LGT24B027EM04 Page 11 of 21



### 3.1.4 TEST RESULTS

Project: LGT24B027	Test Engineer: LiuH			
EUT: 5G Smart phone	Temperature: 16.3℃			
M/N: TANK3 PRO	Humidity: 47%RH			
Test Voltage: AC 120V/60Hz	Test Data: 2024-03-02			
Test Mode: Charging+GSM link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone				
Note:				

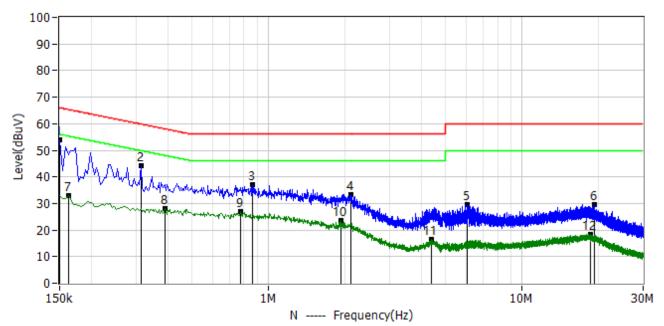


No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.158	41.92	10.49	52.41	65.57	-13.16	QP	L1
2*	0.390	28.74	10.49	39.23	58.06	-18.84	QP	L1
3*	0.906	34.75	10.51	45.26	56.00	-10.74	QP	L1
4*	1.894	26.70	10.70	37.40	56.00	-18.60	QP	L1
5*	3.886	23.01	10.77	33.78	56.00	-22.22	QP	L1
6*	17.450	32.74	11.10	43.84	60.00	-16.16	QP	L1
7*	0.162	35.10	10.49	45.59	55.36	-9.77	AV	L1
8*	0.402	18.16	10.49	28.65	47.81	-19.16	AV	L1
9*	0.922	21.75	10.51	32.26	46.00	-13.74	AV	L1
10*	1.842	15.76	10.69	26.45	46.00	-19.55	AV	L1
11*	3.790	12.76	10.77	23.53	46.00	-22.47	AV	L1
12*	17.514	21.61	11.10	32.71	50.00	-17.29	AV	L1

Report No.: LGT24B027EM04 Page 12 of 21



Project: LGT24B027	Test Engineer: LiuH				
EUT: 5G Smart phone	Temperature: 16.3°C				
M/N: TANK3 PRO	Humidity: 47%RH				
Test Voltage: AC 120V/60Hz	Test Data: 2024-03-02				
Test Mode: Charging+GSM link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone					
Note:					



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.150	43.40	10.49	53.89	66.00	-12.11	QP	N
2*	0.314	33.74	10.49	44.23	59.86	-15.64	QP	N
3*	0.862	26.50	10.51	37.01	56.00	-18.99	QP	N
4*	2.106	22.74	10.72	33.46	56.00	-22.54	QP	N
5*	6.074	18.76	10.84	29.60	60.00	-30.40	QP	N
6*	19.278	18.24	11.19	29.43	60.00	-30.57	QP	N
7*	0.162	22.55	10.49	33.04	55.36	-22.33	AV	N
8*	0.390	17.68	10.49	28.17	48.06	-19.89	AV	N
9*	0.778	16.61	10.51	27.12	46.00	-18.88	AV	N
10*	1.930	13.03	10.71	23.74	46.00	-22.26	AV	N
11*	4.394	5.67	10.79	16.46	46.00	-29.54	AV	N
12*	18.538	7.28	11.18	18.46	50.00	-31.54	AV	N

Report No.: LGT24B027EM04 Page 13 of 21



#### 3.2 RADIATED EMISSION MEASUREMENT

#### **3.2.1 LIMITS**

#### Below 1 GHz

Frequency	Class A	Class B		
(MHz)	Field strength	Field strength		
,	(dBuV/m) (at 3m)	(dBuV/m) (at 3m)		
30 - 88	49.5	40		
88 - 216	53.9	43.5		
216 - 960	56.9	46		
Above 960	60	54		

#### Above 1 GHz

	Clas	ss A	Class B		
Frequency		trength	Field strength (dBuV/m) (at 3m)		
(MHz)	(dBuV/m) (at 3m)		(aBuv/m	) (at 3m)	
	Peak Average		Peak	Average	
Above 1000	80 60		74	54	

#### **Frequency Range of Radiated Disturbance Measurement**

. , ,	
Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

#### Note:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
- (2) The tighter limit applies at the band edges;
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use),

Margin Level = Measurement Value - Limit Value.

#### 3.2.2 TEST PROCEDURE

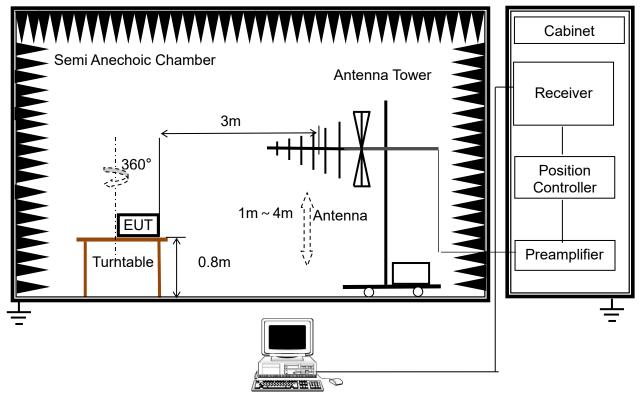
- a. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. EUT as the center to the edge of the auxiliary device, the distance from the maximum edge to the center of the antenna is 3 meter.
- c. The height of antenna is varied from 1 meter to 4 meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meter and the rotatable table was turned from 0 degrees to 360 degree to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Report No.: LGT24B027EM04 Page 14 of 21

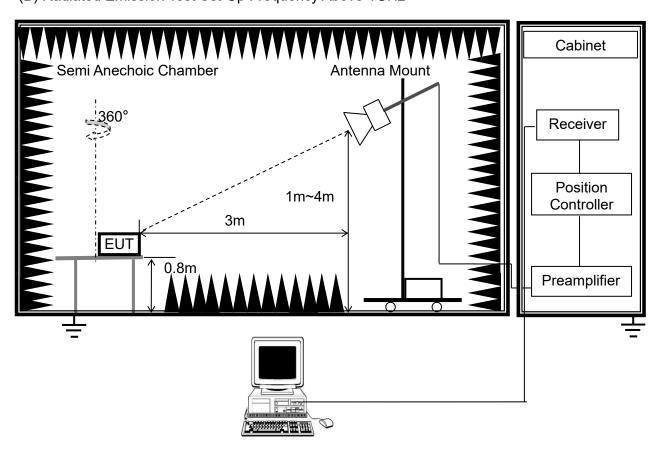


### 3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



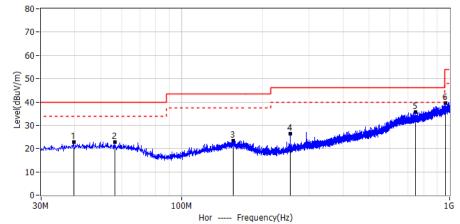
Report No.: LGT24B027EM04 Page 15 of 21



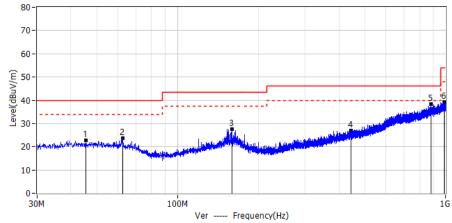
### 3.2.4 TEST RESULTS

### **BELOW 1GHZ**

Project: LGT24B027	Test Engineer: Xiangdong Ma
EUT: 5G Smart phone	Temperature: 22.4°C
M/N: TANK3 PRO	Humidity: 56%RH
Test Voltage: Battery	Test Data: 2024-02-28
Test Mode: USB Data Transmission	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	39.700	3.45	19.33	22.78	40.00	-17.22	QP	Hor
2*	56.433	3.88	18.90	22.78	40.00	-17.22	QP	Hor
3*	155.858	3.42	19.90	23.32	43.50	-20.18	QP	Hor
4*	254.919	7.79	18.47	26.26	46.00	-19.74	QP	Hor
5*	744.284	5.29	30.40	35.69	46.00	-10.31	QP	Hor
6*	966.171	5.39	34.27	39.66	54.00	-14.34	QP	Hor

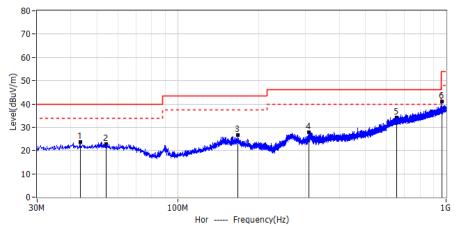


No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
110.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Dotootoi	1 Oldi
1*	45.641	3.41	19.24	22.65	40.00	-17.35	QP	Ver
2*	62.374	5.29	18.49	23.78	40.00	-16.22	QP	Ver
3*	160.223	7.79	19.84	27.63	43.50	-15.87	QP	Ver
4*	443.584	3.17	23.65	26.82	46.00	-19.18	QP	Ver
5*	883.358	5.45	33.01	38.46	46.00	-7.54	QP	Ver
6*	989.694	4.84	34.52	39.36	54.00	-14.64	QP	Ver

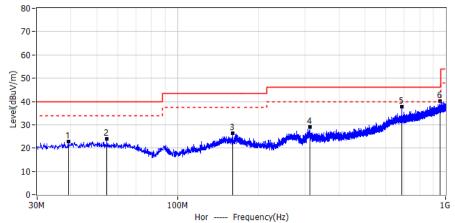
Report No.: LGT24B027EM04 Page 16 of 21



Project: LGT24B027	Test Engineer: Xiangdong Ma			
EUT: 5G Smart phone	Temperature: 22.4°C			
M/N: TANK3 PRO	Humidity: 56%RH			
Test Voltage: AC 120V/60Hz	Test Data: 2024-02-28			
Test Mode: Charging+GSM link+BT+Wi-Fi+GPS+NFC+Camera recording+Earphone				
Note:				



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	43.338	4.50	19.27	23.77	40.00	-16.23	QP	Hor
2*	54.129	3.71	19.06	22.77	40.00	-17.23	QP	Hor
3*	167.255	6.93	19.80	26.73	43.50	-16.77	QP	Hor
4*	307.541	7.69	20.15	27.84	46.00	-18.16	QP	Hor
5*	653.346	5.01	29.28	34.29	46.00	-11.71	QP	Hor
6*	967.020	6.79	34.29	41.08	54.00	-12.92	QP	Hor



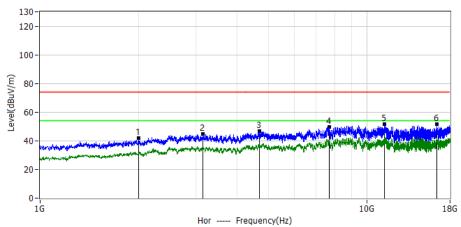
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Fulai
1*	39.215	3.60	19.25	22.85	40.00	-17.15	QP	Hor
2*	54.493	4.83	19.04	23.87	40.00	-16.13	QP	Hor
3*	160.344	6.51	19.84	26.35	43.50	-17.15	QP	Hor
4*	311.906	8.66	20.29	28.95	46.00	-17.05	QP	Hor
5*	687.539	8.08	29.69	37.77	46.00	-8.23	QP	Hor
6*	950.530	6.19	33.97	40.16	46.00	-5.84	QP	Hor

Report No.: LGT24B027EM04 Page 17 of 21

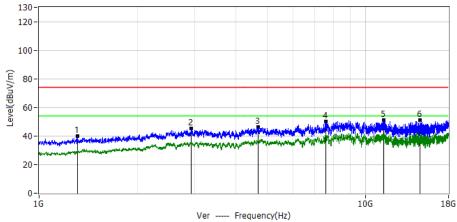


### **ABOVE 1GHZ**

Project: LGT24B027	Test Engineer: Xiangdong Ma
EUT: 5G Smart phone	Temperature: 22.4°C
M/N: TANK3 PRO	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-02-28
Test Mode: Charging+GSM link+BT+Wi-F	i+GPS+NFC+Camera recording+Earphone
Note:	·



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2005.1000	58.08	-16.39	41.69	74.00	-32.31	PK	Hor
2*	3146.2000	53.77	-8.85	44.92	74.00	-29.08	PK	Hor
3*	4703.9000	53.34	-6.71	46.63	74.00	-27.37	PK	Hor
4*	7672.5000	55.52	-5.62	49.90	74.00	-24.10	PK	Hor
5*	11340.2000	53.27	-1.84	51.43	74.00	-22.57	PK	Hor
6*	16372.2000	50.98	0.75	51.73	74.00	-22.27	PK	Hor

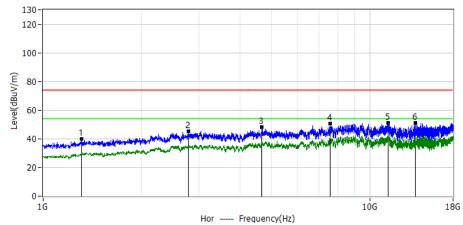


No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
NO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	FUIAI
1*	1308.1000	62.19	-22.18	40.01	74.00	-33.99	PK	Ver
2*	2931.6000	54.41	-9.12	45.29	74.00	-28.71	PK	Ver
3*	4695.4000	52.74	-6.70	46.04	74.00	-27.96	PK	Ver
4*	7564.1000	55.88	-5.66	50.22	74.00	-23.78	PK	Ver
5*	11365.7000	52.92	-1.84	51.08	74.00	-22.92	PK	Ver
6*	14702.0000	50.58	0.58	51.16	74.00	-22.84	PK	Ver

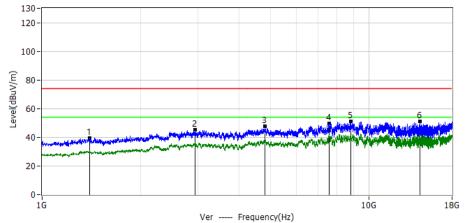
Report No.: LGT24B027EM04 Page 18 of 21



Project: LGT24B027	Test Engineer: Xiangdong Ma
EUT: 5G Smart phone	Temperature: 22.4°C
M/N: TANK3	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-03-23
Test Mode: Charging+GSM link+BT+Wi-Fi+GPS	NFC+Camera recording+Earphone
Note:	



No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
140.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	1 Oldi
1*	1308.1000	61.87	-22.18	39.69	74.00	-34.31	PK	Hor
2*	2778.6000	55.17	-9.89	45.28	74.00	-28.72	PK	Hor
3*	4661.4000	54.96	-6.66	48.30	74.00	-25.70	PK	Hor
4*	7574.7000	56.31	-5.66	50.65	74.00	-23.35	PK	Hor
5*	11363.6000	53.07	-1.84	51.23	74.00	-22.77	PK	Hor
6*	13801.0000	50.70	0.28	50.98	74.00	-23.02	PK	Hor



				•				
No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector	Polar
INO.	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Fulai
1*	1395.2000	61.06	-21.50	39.56	74.00	-34.44	PK	Ver
2*	2942.2000	54.17	-9.06	45.11	74.00	-28.89	PK	Ver
3*	4818.6000	54.33	-6.82	47.51	74.00	-26.49	PK	Ver
4*	7553.5000	55.17	-5.67	49.50	74.00	-24.50	PK	Ver
5*	8807.2000	54.95	-4.02	50.93	74.00	-23.07	PK	Ver
6*	14362.0000	50.59	0.72	51.31	74.00	-22.69	PK	Ver

Report No.: LGT24B027EM04 Page 19 of 21



# **APPENDIX I - TEST SETUP**

## Set-up for Conducted Emission on AC Mains (CE)



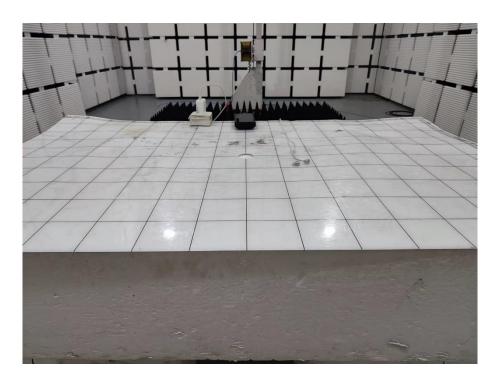
Set-up for Radiated Emission (RE), Below 1GHz



Report No.: LGT24B027EM04 Page 20 of 21



Set-up for Radiated Emission (RE), Above 1GHz



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

Report No.: LGT24B027EM04 Page 21 of 21