# **FCC Test Report**

APPLICANT : TCL Communication Ltd.

EQUIPMENT : R5.5
BRAND NAME : lively
MODEL NAME : LVR52

FCC ID : 2ACCJ-LVR52

STANDARD : 47 CFR Part 15 Subpart B

**CLASSIFICATION**: Certification

TEST DATE(S) : Dec. 09, 2024 ~ Dec. 10, 2024

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang

Approved by: Fly Liang





Report No.: FC4N0506

# Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC4N0506	Rev. 01	Initial issue of report	Apr. 30, 2025

Sporton International Inc. (ShenZhen)

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# SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	19.93 dB at
					0.590 MHz
					Under limit
3.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	14.42 dB at
					809.880 MHz

#### **Conformity Assessment Condition:**

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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# 1. General Description

# 1.1. Applicant

#### **TCL Communication Ltd.**

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

Report No.: FC4N0506

### 1.2. Manufacturer

### **TCL Communication Ltd.**

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

# 1.3. Product Feature of Equipment Under Test

Product Feature				
Equipment	R5.5			
Brand Name	lively			
Model Name	LVR52			
FCC ID	2ACCJ-LVR52			
	LTE			
EUT supports Radios application	Bluetooth LE			
	GNSS			
IMEI Code	Conduction/ Radiation: 358608620200319			
HW Version	V7.0			
SW Version	1G0101			
EUT Stage	Production Unit			

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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# 1.4. Product Specification of Equipment Under Test

Stan	dards-related Product Specification
Tx Frequency	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 66: 1710 MHz ~ 1780 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Rx Frequency	LTE Band 2: 1930 MHz ~ 1990 MHz LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 13: 746 MHz ~ 756 MHz LTE Band 66: 2110 MHz~ 2180 MHz WLAN2.4GHz: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS: 1559 MHz ~ 1610 MHz
Antenna Type	WWAN: LDS Antenna Bluetooth/WLAN: LDS Antenna GNSS: LDS Antenna
Type of Modulation	LTE: QPSK / 16QAM Bluetooth LE : GFSK GNSS : BPSK

Note: WLAN 2.4G is RX only, scanning for location.

# 1.5. Modification of EUT

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

### 1.6. Test Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)						
	101, 1st Floor, Block B, Bu	uilding 1, No. 2, Tengfeng	4th Road, Fenghuang				
Test Site Location	Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong						
rest site Location	Province 518103 People's Republic of China						
	TEL: +86-755-86066985						
	0 4 04 14	500 D	FCC Test Firm				
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.				
	CO02-SZ ; 03CH05-SZ	CN1256	421272				

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### 1.7. Test Software

I	Item Site		Site Manufacturer Name		Version
	1.	03CH05-SZ	AUDIX	E3	6.2009-8-24
	2.	CO02-SZ	AUDIX	E3	6.120613b

# 1.8. Applicable Standards

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

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

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# 2. Test Configuration of Equipment Under Test

# 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: LTE Band 5 Idle(Low CH) + GNSS RX + Battery + Adapter+USB Cable to Charging Dock
AC Conducted Emission	Mode 2: LTE Band 12 Idle(High CH) + GNSS RX + Battery + Adapter+USB Cable to Charging Dock + E-SIM
	Mode 3: LTE Band 13 Idle(Middle CH) + GNSS RX + Battery+ Adapter+USB Cable to Charging Dock
	Mode 1: LTE Band 5 Idle(Low CH) + GNSS RX + Battery + Adapter+USB Cable to Charging Dock
Radiated	Mode 2: LTE Band 12 Idle(High CH) + GNSS RX + Battery + E-SIM
Emissions	Mode 3: LTE Band 13 Idle(Middle CH) + GNSS RX + Battery + Clip Accessory
	Mode 4: LTE Band 5 Idle(Low CH) + GNSS RX + Battery + Fall Detection Lanyard

#### Remark:

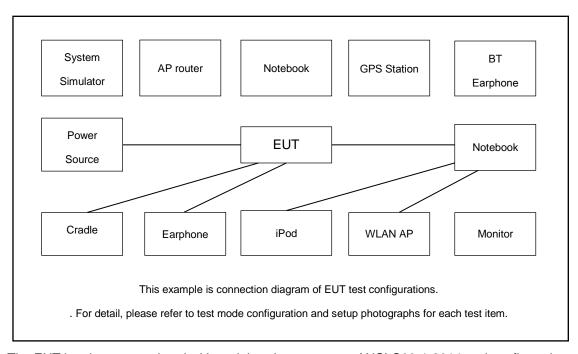
- 1. The worst case of AC is mode 1; only the test data of this mode is reported.
- 2. The worst case of RE is mode 1; only the test data of this mode is reported.
- 3. Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.

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# 2.2. Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

# 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
2.	GNSS Station	T&E	GS-50	N/A	N/A	Unshielded,1.8m
3.	Base Station	Anritsu	CWM500	N/A	N/A	Unshielded,1.8m
4.	Cradle	N/A	N/A	N/A	N/A	N/A

# 2.4. EUT Operation Test Setup

The EUT was in LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was following programs installed in the EUT were programmed during the test.

1. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.

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# 3. Test Result

# 3.1. Test of AC Conducted Emission Measurement

#### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

#### <Class B Limit>

Frequency of emission	Conducted limit (dBuV)				
(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

<sup>\*</sup>Decreases with the logarithm of the frequency.

### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

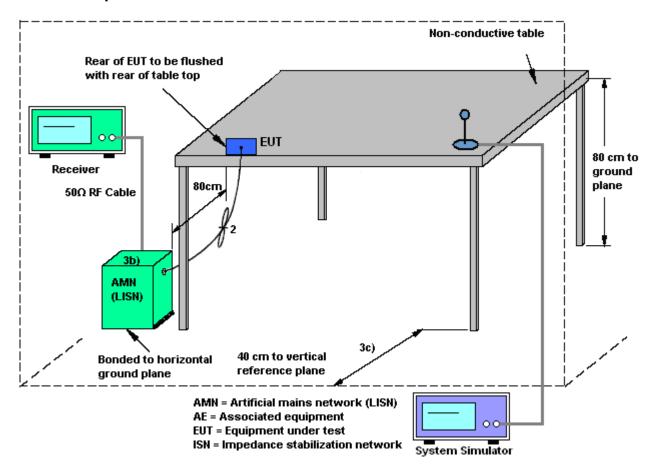
#### 3.1.3 Test Procedure

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

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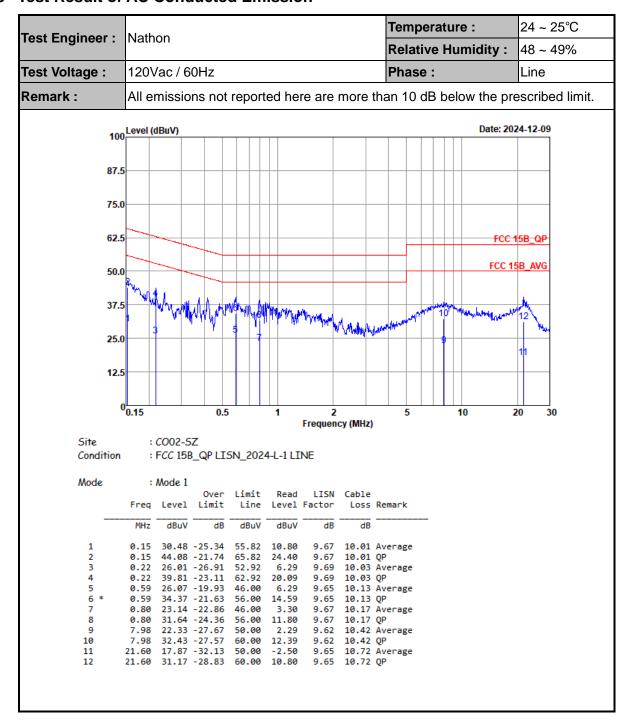
# 3.1.4 Test Setup



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### 3.1.5 Test Result of AC Conducted Emission



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Temperature: 24 ~ 25°C Test Engineer: Nathon Relative Humidity: 48 ~ 49% Test Voltage: 120Vac / 60Hz Phase: Neutral Remark: All emissions not reported here are more than 10 dB below the prescribed limit. 100 Level (dBuV) Date: 2024-12-09 87.5 75.0 62.5 FCC 15B\_QP FCC 15B AVG 50.0 25.0 00.15 0.5 5 10 20 30 Frequency (MHz) Site : CO02-5Z Condition : FCC 15B QP LISN 2024-N-1 NEUTRAL Mode : Mode 1 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV dB dB 9.74 10.01 Average 0.15 30.44 -25.34 55.78 10.69 42.74 -23.04 65.78 10.01 QP 9.74 0.15 22.99 20.71 -32.39 0.21 53.10 1.00 9.69 10.02 Average 0.21 34.11 -28.99 63.10 14.40 9.69 10.02 QP 0.59 25.82 -20.18 46.00 6.00 9.69 10.13 Average 0.59 34.42 -21.58 56.00 14.60 9.69 9.68 10.13 OP 21.67 -24.33 0.90 46.00 1.80 10.19 Average 0.90 30.07 -25.93 56.00 10.20 9.68 10.19 QP 16.27 -29.73 29.07 -26.93 1.66 46.00 -3.70 9.68 10.29 Average 10 1.66 56.00 9.10 9.68 10.29 OP 21.35 -28.65 11 8.11 50.00 1.30 9.63 10.42 Average 30.35 -29.65 60.00 10.30 10.42 OP 9.63

#### Note:

- 1. Level(dB $\mu$ V) = Read Level(dB $\mu$ V) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB $\mu$ V) Limit Line(dB $\mu$ V)

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### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

#### <Class B Limit>

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest radiation.
- 5. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 6. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 7. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 8. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

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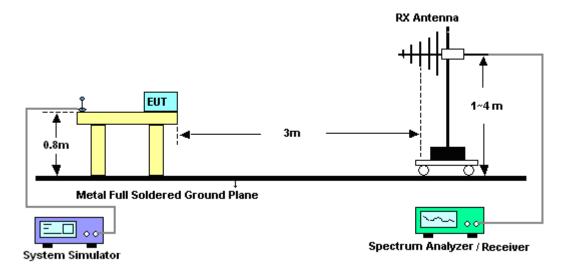
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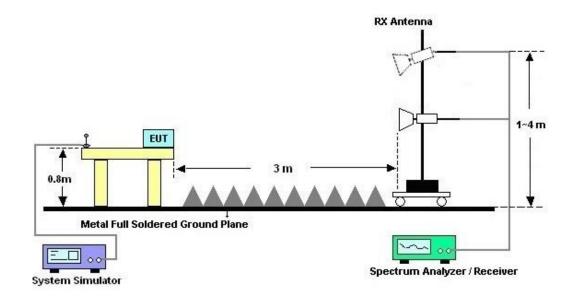
- 9. Emission level  $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 10. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 11. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



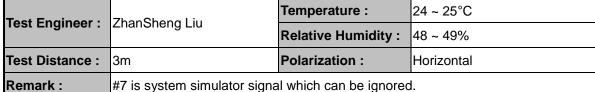
#### For radiated emissions above 1GHz

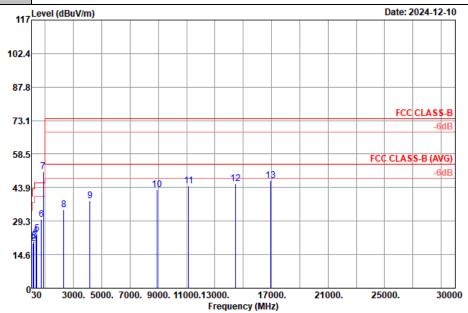


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### 3.2.5. Test Result of Radiated Emission





Site : 03CH05-SZ

: FCC CLASS-B 3m VULB9168--01003 HORIZONTAL Condition

Plane		<b>y</b>									
			0ver	Limit	Read/	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	$\overline{\text{dBuV/m}}$	dBuV	dB/m	dB	dB	cm	deg	
1	38.73	20.28	-19.72	40.00	34.19	19.13	1.33	34.37			Peak
2	145.43	19.58	-23.92	43.50	33.56	18.81	2.30	35.09			Peak
3	198.78	20.49	-23.01	43.50	36.56	16.10	2.73	34.90			Peak
4	324.88	22.68	-23.32	46.00	34.36	20.10	3.32	35.10			Peak
5	400.54	23.66	-22.34	46.00	33.59	21.46	3.31	34.70			Peak
6	728.40	29.84	-16.16	46.00	32.81	27.50	3.73	34.20			Peak
7 *	874.00	50.99			51.75	28.79	4.40	33.95			Peak
8	2320.00	34.21	-39.79	74.00	47.94	32.54	7.02	53.29			Peak
9	4176.00	38.16	-35.84	74.00	47.22	34.45	9.56	53.07			Peak
10	8888.00	43.08	-30.92	74.00	45.40	36.98	12.26	51.56			Peak
11	11151.00	44.76	-29.24	74.00	44.07	38.50	13.39	51.20			Peak
12	14463.00	45.51	-28.49	74.00	41.46	39.94	15.00	50.89			Peak
13	16956.00	47.04	-26.96	74.00	42.96	42.06	15.24	53.22			Peak

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Toot Engineer	Zhan Chang Liv				Temperature :			24 ~	24 ~ 25°C		
Test Engineer :	Znans	ZhanSheng Liu Relative Hui				nidity :	: 48 ~ 49%				
Test Distance :	3m Polarization				zation	:	Vertical				
Remark :	#7 is system simulator signa				al which can be ignored.						
11	Level (dE	BuV/m)							Date: 2024-12-10		
	1										
402											
102.4	4										
87.	8										
										C CLASS-	
73.	1								FC	-6d	
										-00	
58.	5								ECC CLA	CC D (AV/	2)
	7					40			FCC CLA	-6d	
43.			0	10 11	12	13				-00	
43.	9	8	g								
	l e										
29.:	335										
14.0	6										
1	0		7000 0		40000	4700		4000	05000		
	<sup>0</sup> 30 30	000. 5000.	. 7000. 9	nnn <b>11</b> nne							
				000. 11000		1700 ncv (MHz)		1000.	25000.	30	000
Cito		. 0361101		000. 11000		ncy (MHz)		1000.	25000.	30	000
Site Conditio		: 03CH05	5-5Z		Freque	ncy (MHz)	)	1000.	25000.	30	1000
Site Conditio		: 03 <i>C</i> H05 : F <i>CC C</i> L/	5-5Z		Freque	ncy (MHz)	)	1000.	25000.	30	1000
			5-5Z		Freque	ncy (MHz)	)	1000.	25000.	30	000
			5-5Z		Freque	ncy (MHz)	)	1000.	25000.	30	000
Conditio	n :		5-5Z		Freque	ncy (MHz)	)	1000.	25000.	30	000
	n :	: FCC CL/	5-SZ 4SS-B 3		Freque 916801	ncy (MHz)	RTI <i>CA</i> L	Preamp			000
Conditio	n :	: FCC CL/	5-SZ 4SS-B3 Over	m VULB9	Freque 216801 Read	ncy (MHz)	RTI <i>CA</i> L	Preamp			000 Remark
Conditio	n : Freq	: FCC CL/ : Y Level	5-SZ ASS-B3 Over Limit	m VULB9 Limit Line	Freque 216801 Read/ Level	Antenna Factor	Cable Loss	Preamp Factor			
Conditio	n : Freq	: F <i>CC C</i> L <i>i</i>	5-SZ ASS-B3 Over Limit	m VULB9	Freque 216801 Read	Antenna Factor	Cable Loss	Preamp Factor			
Conditio Plane	Freq MHz	: FCC CL/ : Y Level	Over Limit	m VULBS	Read/ Level	Antenna Factor dB/m	Cable Loss	Preamp Factor dB	A/Pos	T/Pos	Remark
Conditio Plane	Freq MHz 30.00	: FCC CL/ : Y Level dBuV/m 22.65	0ver Limit dB	Limit Line dBuV/m	Read/ Level dBuV	Antenna Factor dB/m	Cable Loss  dB  1.21	Preamp Factor dB	A/Pos cm	T/Pos deg	Remark ——
Conditio Plane  1 2	Freq MHz 30.00 120.21	: FCC CL/ : Y Level dBuV/m 22.65 19.49	Over Limit dB -17.35	Limit Line dBuV/m 40.00 43.50	Read/ Level dBuV 37.71 35.19	Antenna Factor  17.83 17.19	Cable Loss  dB  1.21 2.15	Preamp Factor dB 34.10 35.04	A/Pos	T/Pos deg	Remark
Plane  1 2 3	Freq MHz 30.00 120.21 203.63	EFCC CL/ EY Level dBuV/m 22.65 19.49 24.99	Over Limit dB -17.35 -24.01 -18.51	Limit Line dBuV/m 40.00 43.50 43.50	Read/ Level dBuV 37.71 35.19 40.84	Antenna Factor dB/m 17.83 17.19 16.26	Cable Loss dB 1.21 2.15 2.77	Preamp Factor dB 34.10 35.04 34.88	A/Pos	T/Pos  deg	Remark Peak Peak Peak Peak
Plane  1 2 3 4	Freq MHz 30.00 120.21 203.63 264.74	EFCC CL/ EY Level dBuV/m 22.65 19.49 24.99 22.45	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 43.50 43.50 46.00	Read/ Level dBuV 37.71 35.19 40.84 36.00	Antenna Factor dB/m 17.83 17.19 16.26 18.13	Cable Loss  dB  1.21 2.15 2.77 3.07	Preamp Factor dB 34.10 35.04 34.88 34.75	A/Pos	deg	Remark Peak Peak Peak Peak Peak
Plane  1 2 3 4 5	Freq MHz 30.00 120.21 203.63	EFCC CL/ EY Level dBuV/m 22.65 19.49 24.99 22.45 25.42	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 43.50 43.50	Read/ Level dBuV 37.71 35.19 40.84 36.00 32.45	Antenna Factor 17.83 17.19 16.26 18.13 24.23	Cable Loss  dB  1.21 2.15 2.77 3.07 3.40	Preamp Factor  dB  34.10 35.04 34.88 34.75 34.66	A/Pos	deg	Remark Peak Peak Peak Peak Peak Peak
Plane  1 2 3 4	Freq MHz 30.00 120.21 203.63 264.74 509.18	EFCC CLA EY Level dBuV/m 22.65 19.49 24.99 22.45 25.42 31.58	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00	Read/ Level dBuV 37.71 35.19 40.84 36.00	Antenna Factor 17.83 17.19 16.26 18.13 24.23 28.99	Cable Loss  dB  1.21 2.15 2.77 3.07 3.40 4.39	Preamp Factor  dB  34.10 35.04 34.88 34.75 34.66 33.92	A/Pos	deg	Remark Peak Peak Peak Peak Peak
Plane  1 2 3 4 5 6 7 *	Freq MHz 30.00 120.21 203.63 264.74 509.18 809.88	EFCC CL/ EY  Level  dBuV/m  22.65 19.49 24.99 22.45 25.42 31.58 51.18	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00	Read/ Level dBuV 37.71 35.19 40.84 36.00 32.45 32.12 51.94	Antenna Factor 17.83 17.19 16.26 18.13 24.23 28.99 28.79	Cable Loss  dB  1.21 2.15 2.77 3.07 3.40 4.39 4.40	Preamp Factor  dB  34.10 35.04 34.88 34.75 34.66 33.92 33.95	A/Pos	deg	Peak Peak Peak Peak Peak Peak Peak Peak
Plane  1 2 3 4 5 6 7 * 8	Freq MHz 30.00 120.21 203.63 264.74 509.18 809.88 874.00	EFCC CL/ EY  Level  dBuV/m  22.65 19.49 24.99 22.45 25.42 31.58 51.18 37.21	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 43.50 46.00 46.00	Read/ Level dBuV 37.71 35.19 40.84 36.00 32.45 32.12 51.94 48.50	Antenna Factor 17.83 17.19 16.26 18.13 24.23 28.99 28.79 33.29	Cable Loss  dB  1.21 2.15 2.77 3.07 3.40 4.39 4.40 8.82	Preamp Factor  dB  34.10 35.04 34.88 34.75 34.66 33.92 33.95	A/Pos	deg	Peak Peak Peak Peak Peak Peak Peak Peak
Plane  1 2 3 4 5 6 7 * 8 9	Freq MHz 30.00 120.21 203.63 264.74 509.18 809.88 874.00 3248.00	EFCC CL/ EY  Level  dBuV/m  22.65 19.49 24.99 22.45 25.42 31.58 51.18 37.21 40.75	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 43.50 46.00 46.00 74.00	Read/ Level dBuV 37.71 35.19 40.84 36.00 32.45 32.12 51.94 48.50 46.65	Antenna Factor 17.83 17.19 16.26 18.13 24.23 28.99 28.79 33.29 36.20	Cable Loss  dB  1.21 2.15 2.77 3.07 3.40 4.39 4.40 8.82 10.60	Preamp Factor  dB  34.10 35.04 34.88 34.75 34.66 33.92 33.95 53.40	A/Pos	deg	Remark Peak Peak Peak Peak Peak Peak Peak Pea
Plane  1 2 3 4 5 6 7 * 8 9 10 11 1:	Freq MHz 30.00 120.21 203.63 264.74 509.18 809.88 874.00 3248.00 6544.00 8936.00 1214.00	EFCC CL/  EY  Level  dBuV/m  22.65 19.49 24.99 22.45 25.42 31.58 51.18 37.21 40.75 42.67 44.67	Over Limit  -17.35 -24.01 -18.51 -23.55 -20.58 -14.42 -36.79 -33.25 -31.33 -29.33	Limit Line dBuV/m 40.00 43.50 46.00 46.00 74.00 74.00 74.00 74.00	Read/ Level dBuV 37.71 35.19 40.84 36.00 32.45 32.12 51.94 48.50 46.65 44.81 43.96	Antenna Factor 17.83 17.19 16.26 18.13 24.23 28.99 28.79 33.29 36.20 37.07 38.49	Cable Loss  dB  1.21 2.15 2.77 3.07 3.40 4.39 4.40 8.82 10.60 12.28 13.42	Preamp Factor  dB  34.10 35.04 34.88 34.75 34.66 33.92 33.95 53.40 52.70 51.49 51.20	A/Pos	deg	Remark Peak Peak Peak Peak Peak Peak Peak Pea
Plane  1 2 3 4 5 6 7 * 8 9 10 11 1: 12 1:	Freq MHz 30.00 120.21 203.63 264.74 509.18 809.88 874.00 3248.00 6544.00 8936.00 1214.00 3914.00	EFCC CL/  EY  Level  dBuV/m  22.65 19.49 24.99 22.45 25.42 31.58 51.18 37.21 40.75 42.67 44.67	Over Limit  -17.35 -24.01 -18.51 -23.55 -20.58 -14.42 -36.79 -33.25 -31.33 -29.33 -28.55	Limit Line dBuV/m 40.00 43.50 46.00 46.00 74.00 74.00 74.00 74.00 74.00	Read/ Level dBuV 37.71 35.19 40.84 36.00 32.45 32.12 51.94 48.50 46.65 44.81 43.96 43.19	Antenna Factor   17.83   17.19   16.26   18.13   24.23   28.99   28.79   33.29   36.20   37.07   38.49   39.71	Cable Loss  dB  1.21 2.15 2.77 3.40 4.39 4.40 8.82 10.60 12.28 13.42 14.53	Preamp Factor  dB  34.10 35.04 34.88 34.75 34.66 33.92 33.95 53.40 52.70 51.49 51.20 51.98	A/Pos	deg	Remark Peak Peak Peak Peak Peak Peak Peak Pea

#### Note:

- 1. Level(dB $\mu$ V/m) = Read Level(dB $\mu$ V) + Antenna Factor(dB/m) + Cable Loss(dB) Preamp Factor(dB)
- 2. Over Limit(dB) = Level(dB $\mu$ V/m) Limit Line(dB $\mu$ V/m)

Sporton International Inc. (ShenZhen)

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# 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 09, 2024	Dec. 10, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 09, 2024	Dec. 10, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBE CK	VULB 9168	01001	20MHz~1.5GHz	Jul. 07, 2024	Dec. 10, 2024	Jul. 06, 2025	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 09, 2024	Dec. 10, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-2206	1GHz~18GHz	Apr. 09, 2024	Dec. 10, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060781	1GHz~18GHz	Apr. 09, 2024	Dec. 10, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 09, 2024	Dec. 10, 2024	Apr. 08, 2025	Radiation (03CH05SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	00983	15GHz~40GHz	Apr. 09, 2024	Dec. 10, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 18, 2024	Dec. 10, 2024	Oct. 17, 2025	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Dec. 10, 2024	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Dec. 10, 2024	NCR	Radiation (03CH05-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	Dec. 09, 2024	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	Dec. 09, 2024	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	61601000247 0	100Vac~250Vac	Dec.25, 2022	Dec. 09, 2024	Dec. 24, 2024	Conduction (CO02-SZ)

NCR: No Calibration Required

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# 5. Measurement Uncertainty

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

-		
	Measuring Uncertainty for a Level of Confidence	2.5 dB
	of 95% (U = 2Uc(y))	2.5 UB

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

Measuring Uncertainty for a Level of Confidence	4.2 dB
of 95% (U = 2Uc(y))	

### <u>Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)</u>

Management III and the formal and of Confidence	
Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 dB

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	4.1 dB
of 95% (U = 2Uc(y))	4.1 uB

----- THE END -----

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