

# TEST REPORT

### **FCC PART 15.247**

Report Reference No...... CTL2411291011-WF02

Compiled by: ( position+printed name+signature)

Happy Guo (File administrators)

Tested by:

Jack Wang (Test Engineer)

( position+printed name+signature)

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Approved by: ( position+printed name+signature)

(Manager)

Product Name : laptop Model/Type reference..... T152A

List Model(s)...... T140A, T156A, T160A, T173A

Trade Mark..... N/A

FCC ID...... 2BAGV-F152A

Applicant's name...... Shenzhen Forwell Electronics Technology Co., Ltd.

2nd Floor, Building A, Shatang Beifangyongfa Science and

Address of applicant...... Technology Park, Jincheng Rd., Shajing, Baoan, Shenzhen,

Guangdong, China

Test Firm...... Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Address of Test Firm.....

Nanshan District, Shenzhen, China 518055

Test specification.....

Standard...... FCC Part 15.247: Operation within the bands 902-928 MHz,

2400-2483.5 MHz and 5725-5850 MHz.

TRF Originator..... Shenzhen CTL Testing Technology Co., Ltd.

Master TRF : Dated 2011-01

Date of receipt of test item....... Dec. 06, 2024

Date of Test Date...... Dec. 06, 2024-Dec. 09, 2024

**Date of Issue**...... Dec. 10, 2024

Result Pass

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## TEST REPORT

Dec. 10, 2024 Test Report No.: CTL2411291011-WF02 Date of issue

**Equipment under Test** laptop

Sample No CTL2411291011

Model /Type T152A

**Listed Models** T140A, T156A, T160A, T173A

**Applicant** Shenzhen Forwell Electronics Technology Co., Ltd.

2nd Floor, Building A, Shatang Beifangyongfa Science Address

and Technology Park, Jincheng Rd., Shajing, Baoan,

Shenzhen, Guangdong, China

Manufacturer Shenzhen Forwell Electronics Technology Co., Ltd.

2nd Floor, Building A, Shatang Beifangyongfa Science Address

and Technology Park, Jincheng Rd., Shajing, Baoan,

Shenzhen, Guangdong, China

Test result	Pass *
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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified page 5.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

# \*\* Modified History \*\*

Revisions	Description	Issued Data	Report No.	Remark
Version 1.0	Initial Test Report Release	2024-12-10	CTL2411291011-WF02	Tracy Qi
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## 1. SUMMARY

## 1.1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

KDB 558074 D01 v05r02: KDB558074 D01 15.247 Meas Guidance v05r02

## 1.2. Test Description

FCC PART 15.247		
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS

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## 1.3. Test Facility

### 1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co.,Ltd.

Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 32/EN 55032 requirements.

## 1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L7497

Shenzhen CTL Testing Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### A2LA-Lab Cert. No. 4343.01

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: 9618B

**CAB identifier: CN0041** 

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9618B.

FCC-Registration No.: 399832

**Designation No.: CN1216** 

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832.

## 1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power Radiated	±2.20 dB	(1)
Radiated Emission9KHz~30MHz	±3.66dB	(1)
Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
DTS Bandwidth	±1.9%	(1)
Maximum Conducted Output Power	± 1.18 dB	(1)
Maximum Power Spectral Density Level	±0.98 dB	(1)

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±1.21dB	(1)
9kHz-7GHz:±1.09dB	(1)

<sup>(1)</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## 2. GENERAL INFORMATION

## 2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C		
Relative Humidity:	55 %		
Air Pressure:	101 kPa		

## 2.2. General Description of EUT

Product Name:	laptop
Model/Type reference:	T152A
Power supply:	Input: 100-240V~ 50/60Hz 1.2A Output: 12.0V-3.0A 36.0W
Bluetooth Low Energy	
Supported type:	Bluetooth Low Energy
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	FPC Antenna
Antenna gain:	1.35dBi

Note1: For more details, please refer to the user's manual of the EUT.

Note2: Antenna gain provided by the applicant.

## 2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing.

There are 40 channels provided to the EUT and Channel 00/19/39 were selected for Bluetooth Low Energy test.

## **Operation Frequency List:**

Channel	Frequency (MHz)
00	2402
02	2404
03	2406
19	2440
37	2476
38	2478
39	2480

Note: The line display in grey were the channel selected for testing

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## 2.4. Equipments Used during the Test

Conducted Emission						
Test Equipment	Manufacturer	Model No.	Serial No.	Previous calibration	Last Cal.	Cal.Due
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2023/05/04	2024/04/30	2025/04/29
LISN	ROHDE & SCHWARZ	ESH2-Z5	860014/010	2023/05/04	2024/04/30	2025/04/29
Limitator	ROHDE & SCHWARZ	ESH3-Z2	100408	2023/05/04	2024/04/30	2025/04/29
Software:						
Nam	e of Software:	75AV		Version	on:	10.8
ES-K1 V1.71				TAN TO		

Radiated Emission						
Test Equipment	Manufacturer	Model No.	Serial No.	Previous calibration	Last Cal.	Cal.Due
Active Loop Antenna	Da Ze	ZN30900A	1	2021/05/13	2024/04/30	2025/04/29
Double cone logarithmic antenna	Schwarzbeck	VULB 9168	824	1	2023/02/13	2026/02/12
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013		2021/12/23	2024/12/22
Horn Antenna	Ocean Microwave	OBH100400	26999002	1	2021/12/22	2024/12/21
Amplifier	MRT-AP01M06	MRT	S-001	2023/05/04	2024/04/30	2025/04/29
Amplifier	Agilent	8449B	3008A02306	2023/05/04	2024/04/30	2025/04/29
Amplifier	Brief&Smart	LNA-4018	2104197	2023/05/05	2024/05/03	2025/05/02
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2023/05/04	2024/04/30	2025/04/29
Spectrum Analyzer	RS	FSP	1164.4391.38	2023/05/05	2024/05/03	2025/05/02
Software:						
Nar	ne of Software:	No. 100		Versi	on:	an Va
EZ_E	MC(Below 1GHz)	100		V1.1.	4.2	- 1
EZ_EMC(Above 1GHz)			V1.1.4.2			

Manufacturer	Model No.	Serial No.	Previous calibration	Last Cal.	Cal.Due	
Keysight	N9020A	MY53420874	2023/05/04	2024/05/01	2025/04/30	
Ji Yu	MC501	1	2023/05/09	2024/05/04	2025/05/03	
Software:						
Name of Software:			Version:			
TST-PASS V2.0						
	Keysight  Ji Yu  Software:	Manufacturer No.  Keysight N9020A  Ji Yu MC501  Software:	Manufacturer No. Serial No.  Keysight N9020A MY53420874  Ji Yu MC501 /  Software:	Manufacturer         No.         Serial No.         calibration           Keysight         N9020A         MY53420874         2023/05/04           Ji Yu         MC501         /         2023/05/09           Software:         Versi	Manufacturer         No.         Serial No.         calibration         Last Cal.           Keysight         N9020A         MY53420874         2023/05/04         2024/05/01           Ji Yu         MC501         /         2023/05/09         2024/05/04           Software:         Version:	

## 2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

## 2.6. Modifications

No modifications were implemented to meet testing criteria.

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## 3. TEST CONDITIONS AND RESULTS

### 3.1 Radiated Emissions

### Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

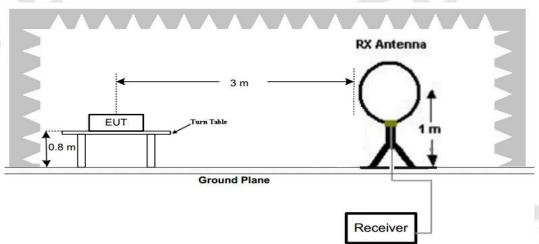
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

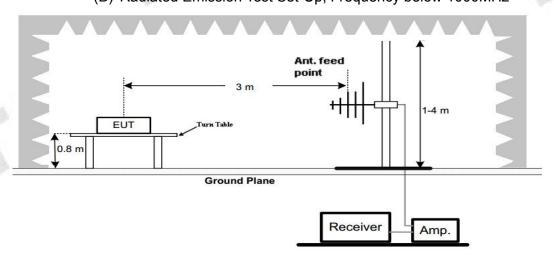
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

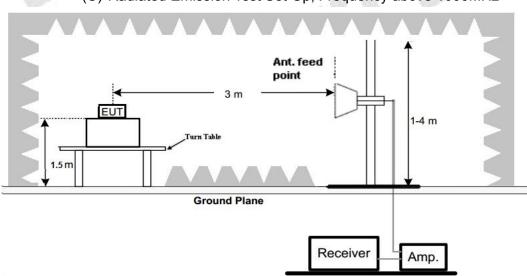
### **TEST CONFIGURATION**

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



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz





## (C) Radiated Emission Test Set-Up, Frequency above 1000MHz

### **Test Procedure**

- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- 5. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

## **TEST RESULTS**

#### Remark:

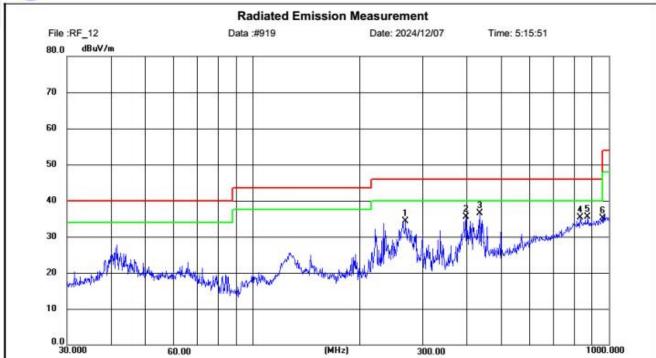
- 1. For below 1GHz testing recorded worst at Bluetooth Low Energy low channel.
- 2. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, Found the emission level are attenuated 20dB below the limits from 9 kHz to 30MHz, so it does not recorded in report.

### For 30MHz-1GHz

#### Horizontal



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Site LAB Chamber 2 Polarization: Horizontal Temperature: 25(C)

Limit: FCC Part15 RE-Class C\_30-1000MHz Power: Humidity: 50 %

EUT: Distance: 3m

M/N: T152A

Mode: BLE1M 2402MHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	269.1922	20.38	13.99	34.37	46.00	11.63	peak	100	212	Р	
2	396.7630	17.21	18.38	35.59	46.00	10.41	peak	100	44	Р	
3	435.3990	17.62	18.82	36.44	46.00	9.56	peak	100	12	Р	
4	830.7642	8.41	26.94	35.35	46.00	10.65	peak	100	44	Р	
5	874.0967	8.53	26.92	35.45	46.00	10.55	peak	100	97	Р	
6	960.8980	6.78	28.42	35.20	54.00	18.80	peak	100	339	Р	

#### Vertical

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Temperature:

P

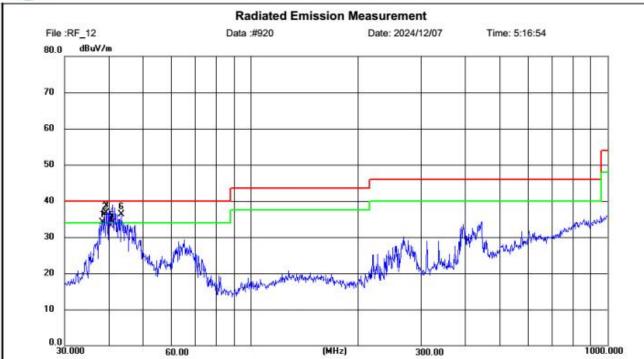
Humidity:

25(C)

50 %



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Site LAB Chamber 2

Limit: FCC Part15 RE-Class C\_30-1000MHz

EUT:

21.57

14.77

36.34

M/N: T152A

No.

1

2

3

4

5

6

Mode: BLE1M 2402MHz

43.2585

Note: Shenzhen Forwell Electronics Technology Co., Ltd.

Frequency Reading Factor Level Limit Margin Height Azimuth P/F Remark Detector (cm) (deg.) (MHz) (dBuV/m) (dBuV/m) (dBuV) (dB/m) (dB) 38.3798 19.66 14.43 34.09 40.00 peak 100 P 5.91 83 39.0073 21.71 14.63 36.34 40.00 3.66 peak 100 126 P 39.3163 22.08 14.69 36.77 40.00 3.23 100 158 P peak P 40.4579 18.40 14.79 40.00 QP 100 360 33.19 6.81 40.7266 19.04 14.77 33.81 40.00 6.19 QP 100 0 P

3.66

peak

100

40.00

Polarization: Vertical

Power:

Distance: 3m

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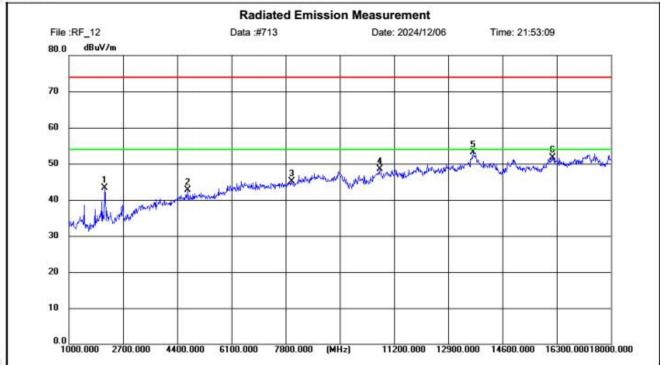
#### For 1GHz to 18GHz

## BLE Mode (above 1GHz)

CH00 Horizontal



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Site LAB Chamber 2 Polarization: Horizontal Temperature: 25(C)

Limit: FCC Part15 RE-Class C\_Above 1GHz\_PK Power: Humidity: 50 %

EUT: Distance: 3m

M/N: T152A

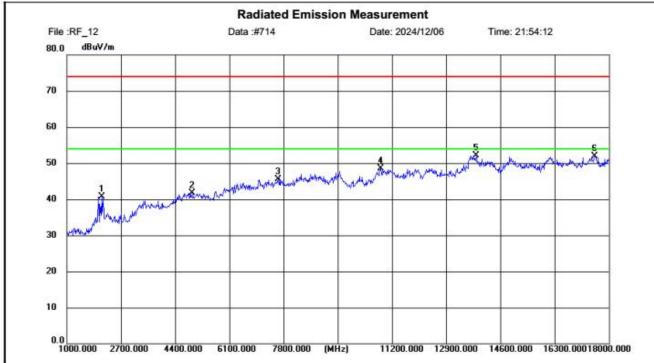
Mode: BLE1M 2402MHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2126.250	61.32	-18.06	43.26	74.00	30.74	peak	150	74	Р	
2	4725.125	50.86	-8.17	42.69	74.00	31.31	peak	150	324	Р	
3	7987.000	48.08	-3.02	45.06	74.00	28.94	peak	150	42	Р	
4	10760.125	48.11	0.35	48.46	74.00	25.54	peak	150	199	Р	
5	13696.875	49.16	3.90	53.06	74.00	20.94	peak	150	2	Р	
6	16187.375	46.52	5.20	51.72	74.00	22.28	peak	150	147	Р	
										_	

CH00 Vertical



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Site LAB Chamber 2 Polarization: Vertical Temperature: 25(C)

Limit: FCC Part15 RE-Class C\_Above 1GHz\_PK Power: Humidity: 50 %

EUT: Distance: 3m

M/N: T152A

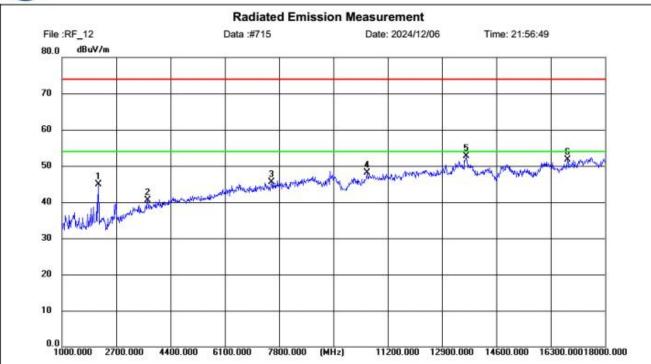
Mode: BLE1M 2402MHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2094.375	59.02	-18.23	40.79	74.00	33.21	peak	150	140	Р	91
2	4935.500	49.57	-7.87	41.70	74.00	32.30	peak	150	296	Р	
3	7634.250	48.49	-2.95	45.54	74.00	28.46	peak	150	171	Р	
4	10855.750	47.96	0.53	48.49	74.00	25.51	peak	150	56	Р	
5	13839.250	48.32	3.74	52.06	74.00	21.94	peak	150	317	Р	
6	17568.625	42.84	9.12	51.96	74.00	22.04	peak	150	358	Р	

CH19 Horizontal



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Site LAB Chamber 2 Polarization: Horizontal Temperature: 25(C)

Limit: FCC Part15 RE-Class C\_Above 1GHz\_PK Power: Humidity: 50 %

EUT: Distance: 3m

M/N: T152A

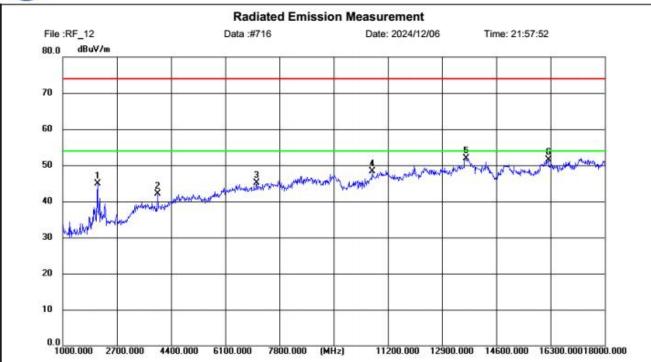
Mode: BLE1M 2440MHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2145.375	62.76	-17.95	44.81	74.00	29.19	peak	150	314	Р	
2	3692.375	52.00	-11.50	40.50	74.00	33.50	peak	150	168	Р	
3	7574.750	48.29	-2.77	45.52	74.00	28.48	peak	150	354	Р	
4	10564.625	48.06	-0.03	48.03	74.00	25.97	peak	150	324	Р	
5	13658.625	48.77	3.93	52.70	74.00	21.30	peak	150	360	Р	
6	16837.625	45.01	6.61	51.62	74.00	22.38	peak	150	241	Р	

CH19 Vertical



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Site LAB Chamber 2 Polarization: Vertical Temperature: 25(C)

Limit: FCC Part15 RE-Class C\_Above 1GHz\_PK Power: Humidity: 50 %

EUT: Distance: 3m

M/N: T152A

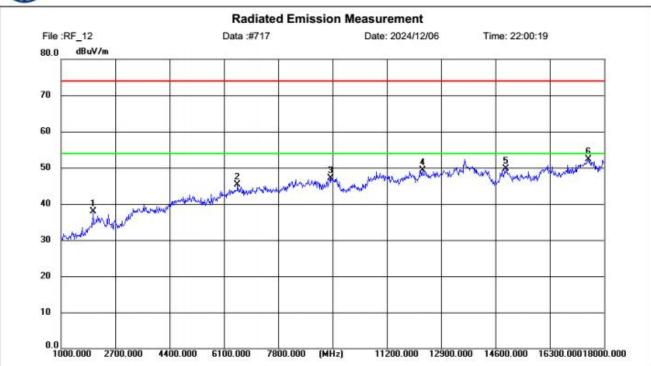
Mode: BLE1M 2440MHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2096.500	63.13	-18.23	44.90	74.00	29.10	peak	150	338	Р	
2	3983.500	52.55	-10.37	42.18	74.00	31.82	peak	150	358	Р	
3	7096.625	48.88	-3.68	45.20	74.00	28.80	peak	150	56	Р	
4	10715.500	47.97	0.27	48.24	74.00	25.76	peak	150	87	Р	
5	13660.750	47.94	3.93	51.87	74.00	22.13	peak	150	328	Р	
6	16240.500	46.07	5.36	51.43	74.00	22.57	peak	150	0	Р	

CH39 Horizontal



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Site LAB Chamber 2 Polarization: Horizontal Temperature: 25(C)

Limit: FCC Part15 RE-Class C\_Above 1GHz\_PK Power: Humidity: 50 %

EUT: Distance: 3m

M/N: T152A

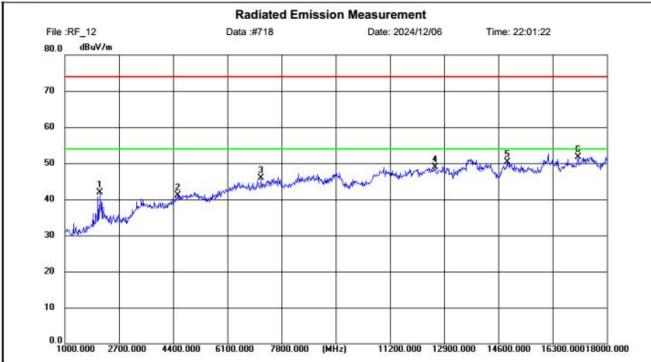
Mode: BLE1M 2480MHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2015.750	56.51	-18.69	37.82	74.00	36.18	peak	150	304	Р	
2	6537.750	49.55	-4.25	45.30	74.00	28.70	peak	150	43	Р	
3	9463.875	46.78	0.27	47.05	74.00	26.95	peak	150	85	Р	
4	12332.625	47.13	2.19	49.32	74.00	24.68	peak	150	304	Р	
5	14929.375	46.41	3.20	49.61	74.00	24.39	peak	150	283	Р	
6	17519.750	43.25	9.15	52.40	74.00	21.60	peak	150	22	Р	

CH39 Vertical



Shenzhen CTL Testing Technology Co., Ltd Tel: +86-755-89486194



Site LAB Chamber 2 Polarization: Vertical Temperature: 25(C)

Limit: FCC Part15 RE-Class C\_Above 1GHz\_PK Power: Humidity: 50 %

EUT: Distance: 3m

M/N: T152A

Mode: BLE1M 2480MHz

Note: Shenzhen Forwell Electronics Technology Co., Ltd.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2098.625	60.22	-18.22	42.00	74.00	32.00	peak	150	358	Р	
2	4555.125	49.56	-8.40	41.16	74.00	32.84	peak	150	244	Р	
3	7164.625	49.34	-3.43	45.91	74.00	28.09	peak	150	56	Р	8
4	12611.000	46.62	2.22	48.84	74.00	25.16	peak	150	338	Р	
5	14886.875	47.10	3.11	50.21	74.00	23.79	peak	150	140	Р	
6	17103.250	44.52	7.18	51.70	74.00	22.30	peak	150	317	Р	a. L

#### **REMARKS:**

- 1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. Margin value = Limit value- Emission level.
- 4. PK detector measurement value is lower than the average limit. Therefore, there is no need to test AV detector measurements.
- 5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.
- 6. 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

# 4. Test Setup Photos of the EUT

Reference to the test report No. CTL2411291011-WF01

## 5. Photos of the EUT

Reference to the test report No. CTL2411291011-WF01

Report No.: CTL2411291011-WF02