

FCC RF EXPOSURE REPORT

For

ISEFY

MODEL NUMBER: DR1003BC-C

PROJECT NUMBER: 4791532994.8

REPORT NUMBER: 4791532994.8-4

FCC ID: 2BF8I-DR1003BC-C

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Prepared for

ISEFY TECHNOLOGY

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	12/22/2024	Initial Issue	

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. MEASUREMENT UNCERTAINTY.....	6
5. REQUIREMENT	7

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: ISEFY TECHNOLOGY
Address: 26 Pine Street. Toronto, ON, Canada M9N 2Y8

Manufacturer Information

Company Name: ISEFY TECHNOLOGY
Address: 26 Pine Street. Toronto, ON, Canada M9N 2Y8

EUT Description

Product Name: ISEFY
Model Number: DR1003BC-C
Series Model Number: /
Model Difference: /
Sample Number: 7773810-S004
Data of Receipt Sample: Nov. 01, 2024
Test Date: Nov. 01, 2024~ Nov. 20, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Guidelines for Human Exposure IEEE C95.1	Complies

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06 and FCC Guidelines for Human Exposure IEEE C95.1.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China.

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Output Power to Antenna	1.3 dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.	

5. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100) *	30
1.34-30	824/f	2.19/f	(180/f ²) *	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30
Note 1: f = frequency in MHz, * means Plane-wave equivalent power density				
Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.				
Note 3: The limit value 1.0mW/cm ² is available for this EUT.				

MPE CALCULATION METHOD

$$S = PG/(4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

CALCULATED RESULTS

Module 1, 2.4GHz WiFi (Worst case)								
Mode	Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Verdict
	(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(mW/cm ²)	
11b	2412MHz-2462MHz	15.0	31.62	3.93	2.47	0.0156	1	Complies

Module 2, 2.4GHz WiFi (Worst case)								
Mode	Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Verdict
	(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(mW/cm ²)	
11b	2412MHz-2462MHz	14.5	28.18	0.83	1.21	0.0068	1	Complies

Module 2, 5GHz WiFi (Worst case)								
Mode	Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Verdict
	(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(mW/cm ²)	
11a	5150MHz-5850MHz	14.0	25.12	1.08	1.28	0.0064	1	Complies

Note:

1. The power density of of Module 1 (2.4GHz WiFi) + the power density of Module 2 (2.4GHz WiFi) = 0.0224 which is less than the limit, so the calculations of above situations are less than the limit
2. The power density of of Module 1 (2.4GHz WiFi) + the power density of Module 2 (5GHz WiFi) = 0.0220 which is less than the limit, so the calculations of above situations are less than the limit
3. The output power is from operation description.
4. The minimum separation distance of the device is greater than 20 cm.
5. All the modes and channels had been tested, but only the worst data was recorded in the report.
6. The calculated result for the sample received is < Pass > according to < 47 CFR FCC Part 2 Subpart J, section 2.1091 > when < Simple Acceptance > decision rule is applied.

END OF REPORT