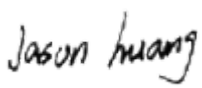
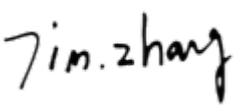
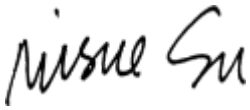
FCC RF EXPOSURE REPORT

FCC ID: 2A49R-MS-01

Test Report No……..:	RF231116004-03-006
Product(s) Name……...:	MINI PC
Model(s)……..:	MS-01-S1245, MS-01-S1250, MS-01-S1260, MS-01-S1270, MS-01-S1290, MS-01-S129K, MS-01-S1342, MS-01-S1350, MS-01-S1360, MS-01-S1370, MS-01-S1380, MS-01-S1390, MS-01-S139K
Trade Mark……....:	N/A
Applicant……:	MICRO COMPUTER (HK) TECH LIMITED
Address……..…...:	RM 18, 28/F, Shui On Centre, 6-8 Harbour Road, Waterfront, Wan Chai, HK, China
Receipt Date……..:	2024.01.04
Test Date……....:	2024.01.11~2024.04.15
Issued Date……..…:	2024.04.17
Standards……:	FCC Guidelines for Human Exposure IEEE C95.1 FCC Title 47 Part 2.1091 KDB 447498 D01 General RF Exposure Guidance v06
Testing Laboratory……:	Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Tim Zhang	Misue Su	
			

History of this test report

Original Report Issue Date: 2024.04.17

● No additional attachment

○ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1.. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
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

Table for Filed Antenna

For BT&BLE

Antenna gain	Antenna Type
Ant1: 2.41dBi	PIFA antenna

For 2.4GWiFi

Antenna gain		Antenna Type
Ant1: 2.41dBi	Ant2: 2.29dBi	PIFA antenna

For 5GWiFi:

Antenna gain		Antenna Type
Ant1: 3.74dBi	Ant2: 3.85dBi	PIFA antenna

For 6GWiFi:

Antenna gain		Antenna Type
Ant1: 3.55dBi	Ant2: 3.58dBi	PIFA antenna

2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm^2)	
BDR+EDR	2402-2480	11.12	2.41	13.53	22.54	1	0.005
BLE	2402-2480	10.98	2.41	13.39	12.83	1	0.004
2.4G Wifi ant1	2412-2462	16.61	2.41	19.02	79.80	1	0.016
2.4G Wifi ant2	2412-2462	16.25	2.29	18.54	71.45	1	0.014
5G Wifi ant1	5180-5825	13.43	3.74	17.17	52.12	1	0.010
5G Wifi ant2	5180-5825	12.92	3.85	16.77	47.53	1	0.010
6G Wifi ant1	5955-7115	-1.47	3.55	2.08	1.61	1	0.000
6G Wifi ant2	5955-7115	-1.81	3.58	1.77	1.50	1	0.000

Note: 1. The calculated distance is 20 cm.
2. The Wifi function can transmit at the same time with the BT function.

Simultaneous transmitting consideration

The ratio= MPE_{BT} /limit+$MPE_{2.4G\ Wifi\ ant1}$ /limit +$MPE_{2.4G\ Wifi\ ant2}$ /limit =0.005/1+0.016/1+0.014/1=0.035<1.0

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).

2. The report is invalid without the signature of the approver.

3. The report is invalid if altered arbitrarily.

4. The report shall not be partially copied without the written approval of the unit.

5. The reported test results are only valid for the tested samples.

6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technology Co., Ltd.

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（END OF REPORT）