

RF EXPOSURE REPORT

Applicant	Icon Health and Fitness, Inc.
Address	1500 South 1000 West, Logan Utah, United States 84321

Manufacturer or Supplier	Icon Health and Fitness, Inc.
Address	1500 South 1000 West, Logan Utah, United States 84321
Product	Tablet
Brand Name	N/A
Model	MP22-Argon3-TV
Additional Model & Model Difference	MP22-Argon3-TV-OT
Date of tests	May 25, 2020 ~ Jul. 20, 2020

- ☒ FCC Part 2 (Section 2.1091)
- ☒ KDB 447498 D01
- ☒ IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	
	Date: Sep. 08, 2020

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT	5
3. MPE CALCULATION FORMULA.....	5
4. CLASSIFICATION	5
5. ANTENNA GAIN	6
6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



Test Report No.: FM200525N006

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM200525N006	Original release	Sep. 08, 2020



Test Report No.: FM200525N006

1. CERTIFICATION

PRODUCT: Tablet

BRAND NAME: N/A

MODEL NO.: MP22-Argon3-TV

ADDITIONAL MODEL: MP22-Argon3-TV-OT

FCC ID: OMC420332

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: Icon Health and Fitness, Inc.

TESTED DATES: May 25, 2020 ~ Jul. 20, 2020

STANDARDS: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1

Note:

1. Additional model MP22-Argon3-TV-OT is identical with the test model MP22-Argon3-TV except the model number for marketing purpose.

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Frequency Band	Antenna Gain (dBi)	Antenna Type
Wi-Fi 2.4GHz	2.82	FPCB Antenna
BT 2.4GHz	2.82	FPCB Antenna
Wi-Fi 5GHz (5150-5250MHz)	4.82	FPCB Antenna
Wi-Fi 5GHz (5250-5350MHz)	5.27	FPCB Antenna
Wi-Fi 5GHz (5500-5725MHz)	4.92	FPCB Antenna
Wi-Fi 5GHz (5745-5825MHz)	6.03	FPCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT (GFSK)	2402-2480MHz	10	+2	8	12
BT (8DPSK)	2402-2480MHz	9	+2	7	11
BT-LE (GFSK)	2402-2480MHz	-3	+2	-5	-1
802.11b	2412-2462MHz	13	+2	11	15
802.11g	2412-2462MHz	13	+2	11	15
802.11n HT20	2412-2462MHz	11	+2	9	13
Wi-Fi 5GHz(Band1)	5150-5250MHz	9	+2	7	11
Wi-Fi 5GHz(Band2)	5250-5350MHz	9	+2	7	11
Wi-Fi 5GHz(Band3)	5500-5725MHz	8	+3	5	11
Wi-Fi 5GHz(Band4)	5725-5850MHz	8	+2	6	10

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT (GFSK)	2441	10.25
BT (8DPSK)	2402	9.15
BT-LE (GFSK)	2440	-2.92
802.11b	2437	13.89
802.11g	2412	13.35
802.11n HT20	2437	12.01
Wi-Fi 5GHz(Band1)	5200	9.69
Wi-Fi 5GHz(Band2)	5310	9.26
Wi-Fi 5GHz(Band3)	5550	9.33
Wi-Fi 5GHz(Band4)	5795	8.61

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
BT 2.4GHz	12	2.82	20	0.006036	1.0
Wi-Fi 2.4GHz	15	2.82	20	0.012043	1.0
Wi-Fi 5GHz	11	5.27	20	0.008428	1.0

CONCLUSION:

The WLAN 2.4GHz and 5GHz can not transmit simultaneously, the BT and WLAN can transmit simultaneously, the formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$(0.006036/1)+(0.012043/1) = 0.018079 < 1, \text{ which is less than the "1" limit.}$$

--- END ---