RF Exposure Evaluation Report

APPLICANT: VINFAST TRADING AND PRODUCTION

JOINT STOCK COMPANY

EQUIPMENT: MULTIMEDIA HEAD UNIT

BRAND NAME : VINFAST

MODEL NAME : VF-EC22U

FCC ID : 2A6HEVF-EC22U

STANDARD : 47 CFR Part 2.1091

The product evaluation date was started from Aug. 16, 2022 and completed on Aug. 16, 2022. We, Sporton International Inc. (Kunshan), would like to declare that the device has been evaluated in accordance with 47 CFR Part2.1091/47 CFR Part 1.1307, and pass the limit. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Si Zhang

Approved by: Si Zhang

lac-MRA



Page Number

Report Version

: 1 of 11

: Rev. 01

Report Issued Date : Sep. 07, 2022

Report No.: FA233104

Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Table of Contents

1.	ADMINISTRATION DATA	4
	1.1. Testing Laboratory	
	GUIDANCE APPLIED	
	DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	
	MAXIMUM RF AVERAGE OUTPUT TUNE UP POWER AMONG PRODUCTION UNITS	
5.	RF EXPOSURE LIMIT INTRODUCTION	8
6.	RADIO FREQUENCY RADIATION EXPOSURE EVALUATION	10
	6.1. Standalone assessment	10
	6.2 Simultaneous Transmission MPF Test Evernation	11

FCC ID: 2A6HEVF-EC22U

Page Number : 2 of 11
Report Issued Date : Sep. 07, 2022

Report No.: FA233104

Report Version : Rev. 01



SPORTON LAB. RF Exposure Evaluation Report

Revision History

Report No.: FA233104

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA233104	Rev. 01	Initial issue of report.	Sep. 07, 2022

 Sporton International Inc. (Kunshan)
 Page Number
 : 3 of 11

 TEL: 86-512-57900158 / FAX: 86-512-57900958
 Report Issued Date
 : Sep. 07, 2022

 FCC ID: 2A6HEVF-EC22U
 Report Version
 : Rev. 01

1. Administration Data

1.1. <u>Testing Laboratory</u>

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Report No.: FA233104

Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158 FAX: +86-512-57900958		lopment Zone
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
rest one No.	SAR01-KS	CN1257	314309

Applicant		
Company Name	VINFAST TRADING AND PRODUCTION JOINT STOCK COMPANY	
Address	Dinh Vu - Cat Hai Economic Zone, Cat Hai Island, Cat Hai Town, Cat Hai District, Hai Phong City, Vietnam	

Manufacturer		
Company Name VINFAST TRADING AND PRODUCTION JOINT STOCK COMPANY		
Address	Dinh Vu - Cat Hai Economic Zone, Cat Hai Island, Cat Hai Town, Cat Hai District, Hai Phong City, Vietnam	

2. Guidance Applied

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

- · FCC 47 CFR Part 2.1091
- KDB 447498 D04 Interim General RF Exposure Guidance v01
- FCC 47 CFR Part 1.1307

 Sporton International Inc. (Kunshan)
 Page Number
 : 4 of 11

 TEL: 86-512-57900158 / FAX: 86-512-57900958
 Report Issued Date
 : Sep. 07, 2022

 FCC ID: 2A6HEVF-EC22U
 Report Version
 : Rev. 01

SPORTON LAB. RF Exposure Evaluation Report

3. Description of Equipment Under Test (EUT)

### Brand Name VINFAST	Product Feature & Specification			
## Model Name VF-EC22U	EUT Type	MULTIMEDIA HEAD UNIT		
FCC ID 2A6HEVF-EC22U GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band IV: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 2: 1710 MHz ~ 1755 MHz LTE Band 2: 1850 MHz ~ 1755 MHz LTE Band 12: 1850 MHz ~ 1755 MHz LTE Band 17: 2500 MHz ~ 1755 MHz LTE Band 17: 2500 MHz ~ 1755 MHz LTE Band 17: 2500 MHz ~ 2700 MHz LTE Band 17: 2500 MHz ~ 2700 MHz LTE Band 13: 777 MHz ~ 787 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 2540 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPRS/EGPRS RMC 12.2Kbps HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE GSM850: 0.7 dBi GSM1900: 2.1 dBi WCDMA Band IV: 3.5 dBi	Brand Name	VINFAST		
GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 1755 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPRS/EGPRS RMC 12.2Kbps HSDPA HSDPA HSDPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR/EDR/LE GSM850: 0.7 dBi GSM1900: 2.1 dBi WCDMA Band II: 2.1 dBi WCDMA Band IV: 3.5 dBi WCDMA Band IV: 3.5 dBi WCDMA Band IV: 0.7 dBi	Model Name	VF-EC22U		
GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1755 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 2: 1850 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPRS/EGPRS RMC 12.2Kbps HSDPA HSUPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR/EDR/LE GSM850: 0.7 dBi GSM1900: 2.1 dBi WCDMA Band II: 2.1 dBi WCDMA Band IV: 3.5 dBi WCDMA Band IV: 3.5 dBi WCDMA Band IV: 0.7 dBi	FCC ID	2A6HEVF-EC22U		
GPRS/EGPRS RMC 12.2Kbps HSDPA HSUPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE GSM850: 0.7 dBi GSM1900: 2.1 dBi WCDMA Band II: 2.1 dBi WCDMA Band IV: 3.5 dBi WCDMA Band V: 0.7 dBi	Wireless Technology and Frequency Range	GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5745 MHz ~ 5825 MHz		
GSM1900 : 2.1 dBi WCDMA Band II: 2.1 dBi WCDMA Band IV: 3.5 dBi WCDMA Band V: 0.7 dBi	Mode	GPRS/EGPRS RMC 12.2Kbps HSDPA HSUPA HSPA+(16QAM uplink is supported) LTE: QPSK, 16QAM WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80		
LTE Band 4: 3.5 dBi LTE Band 5: 0.7 dBi LTE Band 7: -1.7 dBi LTE Band 12: 1.8 dBi LTE Band 13: 0.1 dBi WLAN2.4GHz: 3.264 dBi Bluetooth: 2.402 dBi WLAN5.2GHz: 1.305 dBi WLAN5.8GHz: 2.685 dBi	Antenna Gain	GSM850: 0.7 dBi GSM1900: 2.1 dBi WCDMA Band II: 2.1 dBi WCDMA Band IV: 3.5 dBi WCDMA Band V: 0.7 dBi LTE Band 2: 2.1 dBi LTE Band 4: 3.5 dBi LTE Band 5: 0.7 dBi LTE Band 7: -1.7 dBi LTE Band 7: -1.7 dBi LTE Band 13: 0.1 dBi WLAN2.4GHz: 3.264 dBi Bluetooth: 2.402 dBi WLAN5.2GHz: 1.305 dBi WLAN5.8GHz: 2.685 dBi		
Antenna Type WWAN: Fixed External Antenna WLAN/Bluetooth: Fixed Internal Antenna	Antonna Lyno			
HW Version C2.2	HW Version	C2.2		
SW Version SOW30005092	SW Version	SOW30005092		
EUT Stage Identical Prototype	EUT Stage	Identical Prototype		

Report No.: FA233104

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

Comments and Explanations:

- 1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
- 2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

 Sporton International Inc. (Kunshan)
 Page Number
 : 5 of 11

 TEL: 86-512-57900158 / FAX: 86-512-57900958
 Report Issued Date
 : Sep. 07, 2022

 FCC ID: 2A6HEVF-EC22U
 Report Version
 : Rev. 01

4. Maximum RF average output tune up power among production units

Report No.: FA233104

<GSM>

Mode	Burst average power(dBm)	
Mode	GSM 850	GSM 1900
GPRS (GMSK, 1 Tx slot)	34.00	30.50
GPRS (GMSK, 2 Tx slots)	32.50	30.50
GPRS (GMSK, 3 Tx slots)	30.50	29.00
GPRS (GMSK, 4 Tx slots)	30.00	28.00
EDGE (8PSK, 1 Tx slot)	28.00	27.00
EDGE (8PSK, 2 Tx slots)	27.00	26.50
EDGE (8PSK, 3 Tx slots)	25.50	25.00
EDGE (8PSK, 4 Tx slots)	24.50	24.00

<WCDMA>

Mode		Maximum Average power(dBm)
	Band II	24.50
WCDMA	Band IV	24.50
	Band II	24.50

<u> <LTE></u>

Mode		Maximum Average power(dBm)
	Band 2	24.00
	Band 4	24.50
LTE	Band 5	24.50
LTE	Band 7	24.00
	Band 12	24.00
	Band 13	24.00

<2.4GHz WLAN >

Frequency	Mode	Maximum Average Power (dBm)
	802.11b	16.00
WLAN 2.4GHz	802.11g	13.00
	802.11n-HT20	12.00

<Bluetooth>

Mode		Maximum Average power(dBm)
Bluetooth	BR/EDR	1.00

 Sporton International Inc. (Kunshan)
 Page Number
 : 6 of 11

 TEL: 86-512-57900158 / FAX: 86-512-57900958
 Report Issued Date
 : Sep. 07, 2022

 FCC ID: 2A6HEVF-EC22U
 Report Version
 : Rev. 01



RF Exposure Evaluation Report

LE 1.00

Report No.: FA233104

<5GHz WLAN >

Frequency	Mode	Maximum Average Power (dBm)
	802.11a	11.00
	802.11n-HT20	11.00
WLAN 5.2GHz	802.11n-HT40	9.00
WLAN 5.2GHZ	802.11ac-VHT20	11.00
	802.11ac-VHT40	9.00
	802.11ac-VHT80	8.00
	802.11a	11.00
	802.11n-HT20	11.00
WLAN 5.8GHz	802.11n-HT40	9.00
WLAN 3.0GHZ	802.11ac-VHT20	11.00
	802.11ac-VHT40	9.00
	802.11ac-VHT80	8.00

 Sporton International Inc. (Kunshan)
 Page Number
 : 7 of 11

 TEL: 86-512-57900158 / FAX: 86-512-57900958
 Report Issued Date
 : Sep. 07, 2022

 FCC ID: 2A6HEVF-EC22U
 Report Version
 : Rev. 01

5. RF Exposure Limit Introduction

- 1. Per 1.1307(b)(3), (i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:
 - (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
 - (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = \begin{cases} \text{ERP}_{20 cm} (d/20 \text{ cm})^x & d \le 20 cm \\ \text{ERP}_{20 cm} & 20 cm < d \le 40 cm \end{cases}$$
[1]

Report No.: FA233104

Where
$$x = -\log_{10}(\frac{60}{ERP_{20} cm\sqrt{f}})$$
 and f is in GHz [2]

and
$$ERP_{20\ cm}$$
 (mW) =
$$\begin{cases} 2040f & 0.3\ GHz < f \le 1.5\ GHz \\ 3060 & 1.5\ GHz < f \le 6\ GHz \end{cases}$$
 [3]

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value)

Table 1 to $\S 1.1307(b)(3)(i)(C)$ - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R ²
1.34-30	3,450 R ² /f ²
30-300	3.83 R ²
300-1,500	0.0128 R ² f
1,500-100,000	19.2 R ²

 Sporton International Inc. (Kunshan)
 Page Number
 : 8 of 11

 TEL: 86-512-57900158 / FAX: 86-512-57900958
 Report Issued Date
 : Sep. 07, 2022

 FCC ID: 2A6HEVF-EC22U
 Report Version
 : Rev. 01



RF Exposure Evaluation Report

- 2. For multiple RF sources: Multiple RF sources are exempt if:
 - (A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

Report No.: FA233104

(B) In the case of |xed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{i=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{i=1}^{b} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

- a. a = number of fixed, mobile, or portable RF sources claiming exemption using the § 1.1307(b)(3)(i)(B) formula for Pth, including existing exempt transmitters and those being added.
- b. b = number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C)

 Table 1 formula for Threshold ERP, including existing exempt transmitters and those being added.
- c. c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance.
- d. *Pi*, the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source *i* at a distance between 0.5 cm and 40 cm (inclusive)
- e. Pth,i the exemption threshold power (Pth) according to the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i.
- f. *ERPj* the available maximum time-averaged power or the ERP, whichever is greater, of fixed, mobile, or portable RF source *j*.
- g. *ERP*th, *j* exemption threshold ERP for fixed, mobile, or portable RF source *j*, at a distance of at least $\lambda/2\pi$, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.
- h. *Evaluatedk* the maximum reported SAR or MPE of fixed, mobile, or portable RF source *k* either in the device or at the transmitter site from an existing evaluation.
- i. Exposure Limitk either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable sources RF source k, as applicable from § 1.1310 of this chapter.
- j. The relationship between EIRP and ERP is: ERP (dBm) = EIRP 2.15, Where EIRP is the sum of the conducted power (dBm) and the antenna gain (dBi)

The sum of the ratios of the applicable terms for SAR-based, MPE-based and measured SAR or MPE shall be less than 1, to determine simultaneous transmission exposure compliance

 Sporton International Inc. (Kunshan)
 Page Number
 : 9 of 11

 TEL: 86-512-57900158 / FAX: 86-512-57900958
 Report Issued Date
 : Sep. 07, 2022

 FCC ID: 2A6HEVF-EC22U
 Report Version
 : Rev. 01



6. Radio Frequency Radiation Exposure Evaluation

6.1. Standalone assessment

Band	Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Maximum EIRP (dBm)	Maximum ERP (dBm)	Maximum ERP (mW)	Separation Distance (cm)	Part1.1307 option(b) Threshold (mW)	Part1.1307 option(b) P/Pth
GPRS 850 (1 Tx slot)	0.70	34.00	25.70	23.55	226.46	20	1681.368	0.188
GPRS 850 (2 Tx slots)	0.70	32.50	27.20	25.05	319.89	20	1681.368	0.266
GPRS 850 (3 Tx slots)	0.70	30.50	26.94	24.79	301.30	20	1681.368	0.250
GPRS 850 (4 Tx slots)	0.70	30.00	27.70	25.55	358.92	20	1681.368	<mark>0.298</mark>
EGPRS 850 (1 Tx slot)	0.70	28.00	19.70	17.55	56.89	20	1681.368	0.047
EGPRS 850 (2 Tx slots)	0.70	27.00	21.70	19.55	90.16	20	1681.368	0.075
EGPRS 850 (3 Tx slots)	0.70	25.50	21.94	19.79	95.28	20	1681.368	0.079
EGPRS 850 (4 Tx slots)	0.70	24.50	22.20	20.05	101.16	20	1681.368	0.084
GPRS 1900 (1 Tx slot)	2.10	30.50	23.60	21.45	139.64	20	3060.000	0.046
GPRS 1900 (2 Tx slots)	2.10	30.50	26.60	24.45	278.61	20	3060.000	0.092
GPRS 1900 (3 Tx slots)	2.10	29.00	26.84	24.69	294.44	20	3060.000	0.097
GPRS 1900 (4 Tx slots)	2.10	28.00	27.10	24.95	312.61	20	3060.000	0.103
EGPRS 1900 (1 Tx slot)	2.10	27.00	20.10	17.95	62.37	20	3060.000	0.021
EGPRS 1900 (2 Tx slots)	2.10	26.50	22.60	20.45	110.92	20	3060.000	0.037
EGPRS 1900 (3 Tx slots)	2.10	25.00	22.84	20.69	117.22	20	3060.000	0.039
EGPRS 1900 (4 Tx slots)	2.10	24.00	23.10	20.95	124.45	20	3060.000	0.041
WCDMA Band 2	2.10	24.50	26.60	24.45	278.61	20	3060.000	0.092
WCDMA Band 4	3.50	24.50	28.00	25.85	384.59	20	3060.000	0.126
WCDMA Band 5	0.70	24.50	25.20	23.05	201.84	20	1680.960	0.168
LTE Band 2	2.10	24.00	26.10	23.95	248.31	20	3060.000	0.082
LTE Band 4	3.50	24.50	28.00	25.85	384.59	20	3060.000	0.126
LTE Band 5	0.70	24.50	25.20	23.05	201.84	20	1680.960	0.168
LTE Band 7	-1.70	24.00	22.30	20.15	103.51	20	3060.000	0.082
LTE Band 12	1.80	24.00	25.80	23.65	231.74	20	1425.960	0.176
LTE Band 13	0.10	24.00	24.10	21.95	156.68	20	1585.080	0.158
2.4GHz WLAN	3.264	16.00	19.26	17.11	51.45	20	3060.000	0.017
5.2GHz WLAN	1.305	11.00	12.31	10.16	10.36	20	3060.000	0.004
5.8GHz WLAN	2.685	11.00	13.69	11.54	14.24	20	3060.000	0.005
Bluetooth	2.402	1.00	3.40	1.25	1.33	20	3060.000	0.0004

Report No.: FA233104

Sporton International Inc. (Kunshan) Page Number : 10 of 11 TEL: 86-512-57900158 / FAX: 86-512-57900958 Report Issued Date : Sep. 07, 2022 FCC ID: 2A6HEVF-EC22U Report Version : Rev. 01

6.2. <u>Simultaneous Transmission MPE Test Exemption</u>

WWAN P/Pth Ratio	Bluetooth P/Pth Ratio	WLAN 2.4GHz P/Pth Ratio	Sum of the Ratio WWAN + Bluetooth + WLAN 2.4GHz
0.298	0.0004	0.017	0.315
WWAN P/Pth Ratio	Bluetooth P/Pth Ratio	WLAN 5GHz P/Pth Ratio	Sum of the Ratio WWAN + Bluetooth + WLAN 5GHz

Report No.: FA233104

Note:

1. According to Part1.1307 (b)(3)(i)(B), the P/Pth Ratio is using for Sim-Tx analysis, above table was showing summation ratio is smaller than 1.

Conclusion:

According to 47 CFR §1.1307 (b)(3)(i)(B), the RF exposure analysis concludes that the RF Exposure is FCC compliant.

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 Sporton International Inc. (Kunshan)
 Page Number
 : 11 of 11

 TEL: 86-512-57900158 / FAX: 86-512-57900958
 Report Issued Date
 : Sep. 07, 2022

 FCC ID: 2A6HEVF-EC22U
 Report Version
 : Rev. 01