

# Radio Exposure Evaluation Report

**FCC ID** : H8NSBE1V1K  
**Equipment** : WiFi 7 Router  
**Model Name** : SBE1V1K  
**Applicant** : ASKEY COMPUTER CORPORATION  
10F, No.119, Jiankang Rd., Zhonghe Dist.,  
New Taipei City, Taiwan  
**Manufacturer** : ASKEY COMPUTER CORPORATION  
10F, No.119, Jiankang Rd., Zhonghe Dist.,  
New Taipei City, Taiwan  
**Standard** : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on Dec. 08, 2023, and testing was started from Dec. 26, 2023 and completed on Feb. 15, 2024. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR FCC Part 2 Subpart J, section 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**  
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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### Photographs of EUT V02



## History of this test report

Report No.	Version	Description	Issued Date
FA3N0237	01	Initial issue of report	Feb. 28, 2024
FA3N0237	02	Update Antenna Information and Photographs of EUT (This report is the latest version replacing for the report issued on Feb. 28, 2024)	Mar. 26, 2024



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

None

Reviewed by: Ryan Hsiao

Report Producer: Ann Hou

# 1 General Description

## 1.1 Information

### 1.1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) VHT: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5720 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN	5925-7125	5955-7115	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)
Thread	2400-2483.5	2405-2480	DSSS (O-QPSK)

### 1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	NA	N03AKBYA	PCB	I-Pex	2.4G+5G	Radio 1
2	NA	N03AKBYB	PCB	I-Pex	2.4G+5G	Radio 1
3	NA	N03AKBYC	PCB	I-Pex	2.4G+5G	Radio 1
4	NA	N03AKBYD	PCB	I-Pex	2.4G+5G	Radio 1
5	NA	N06AKBYE	PCB	I-Pex	6G	Radio 2
6	NA	N06AKBYF	PCB	I-Pex	6G	Radio 2
7	NA	N06AKBG	PCB	I-Pex	6G	Radio 2
8	NA	N06AKBYH	PCB	I-Pex	6G	Radio 2
9	NA	N01AKBYJ	PCB	I-Pex	BT+Thread	Radio 3



Ant.	Port	Gain (dBi)									
		2.4G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G	BT+ Thread
1	1	3.1	4.97	5.15	5.24	5.22	-	-	-	-	-
2	2	1.08	3.48	3.77	4.84	4.89	-	-	-	-	-
3	3	1.62	2.48	4.45	4.3	5.28	-	-	-	-	-
4	4	1.27	1.28	2.25	3.67	4.13	-	-	-	-	-
5	1	-	-	-	-	-	3.65	2.68	2.4	2.38	-
6	2	-	-	-	-	-	3.09	2.54	3.38	1.79	-
7	3	-	-	-	-	-	4.21	3.27	3.47	2.7	-
8	4	-	-	-	-	-	3.78	3.55	2.51	2.69	-
9	1	-	-	-	-	-	-	-	-	-	5.3

Composite Gain (dBi)										
	2.4G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G	
DG [1SS]	3.46	5.06	5.53	5.83	6.19	6.56	6.96	6.38	5.94	
DG [2SS]	3.1	4.97	5.15	5.24	5.28	4.21	3.96	3.47	2.94	
DG [4SS]	3.1	4.97	5.15	5.24	5.28	4.21	3.55	3.47	2.7	

Note 1: The EUT has nine antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v01 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP3N0237.

**For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX)

Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3) and Ant. 4 (port 4) could transmit/receive simultaneously.

**For 5GHz function:**

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX)

Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3) and Ant. 4 (port 4) could transmit/receive simultaneously.

**For 6GHz function:**

For IEEE 802.11 ax/be mode (4TX/4RX)

Ant. 5 (port 1), Ant. 6 (port 2), Ant. 7 (port 3) and Ant. 8 (port 4) could transmit/receive simultaneously.

**For BT function:**

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 9 (port 1) could transmit/receive.

**For 802.15.4 function:**

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 9 (port 1) could transmit/receive.

**1.1.3 Accessories**

Accessories			
AC Adapter (US Plug)	Brand Name	DELTA	Model Name RPSU3
	Power Rating	I/P: 100- 120 Vac, 1.0 A, O/P: 12.0 Vdc, 3.5 A	
	Power Cord	1.8 meter, non-shielded cable, w/o ferrite core	
RJ45 Cable [CAT. 6]	Power Cord	1.75 meter, non-shielded cable, w/o ferrite core	

Reminder: Regarding to more detail and other information, please refer to user manual.



### 1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 2 Subpart J, section 2.1091
- ♦ KDB 447498 D04 Interim General RF Exposure Guidance v01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ 47 CFR Part 1.1307
- ♦ 47 CFR Part 1.1310

### 1.3 Testing Location

<b>Test Lab. : Sporton International Inc. Hsinhua Laboratory</b>		
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) TEL: 886-3-327-3456      FAX: 886-3-327-0973
Test site Designation No. TW3785 with FCC.		
<input type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: 886-3-318-0787      FAX: 886-3-318-0287
Test site Designation No. TW0008 with FCC.		



## 2 Maximum Permissible Exposure

### 2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6

(B) 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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	F/1500	30
1500-100,000	-	-	1.0	30

Note: f = frequency in MHz ; \*Plane-wave equivalent power density

<b>Multiple Transmitters Condition</b>	
<p>Co-location as simultaneously transmitting (co-transmitting) and the evaluation shall be consider that simultaneous transmissions from co-located devices the individual transmitters are evaluated separately. After sum of the individual value (basic restriction / reference level) are measured/calculated also have to under basic restriction / reference level.</p>	
<p>Co-transmitting mode:</p> <ol style="list-style-type: none"> <li>1 WLAN 2.4GHz + WLAN 5GHz + Bluetooth</li> <li>2 WLAN 2.4GHz + WLAN 5GHz + Thread</li> <li>3 WLAN 2.4GHz + WLAN 6GHz + Bluetooth</li> <li>4 WLAN 2.4GHz + WLAN 6GHz + Thread</li> </ol>	



## 2.2 RF Exposure Exempt Measurement

Option	Refer Std.	Exemption Exposure Thresholds (TL)
A	§1.1307(b)(3)(i)(A)	Available maximum time-averaged power is no more than 1 mW
B	§1.1307(b)(3)(i)(B)	$P_{th}(mW) = \begin{cases} ERP_{20cm} (d / 20cm)^x \rightarrow d \leq 20cm \\ ERP_{20cm} \rightarrow 20cm < d \leq 40cm \end{cases}$ $x = -\log_{10} \left( \frac{60}{ERP_{20cm} \sqrt{f}} \right) \text{ and } f \text{ is in GHz}$ $\begin{cases} ERP_{20cm} : 0.3GHz \leq f < 1.5GHz \rightarrow 2040 f (mW) \\ ERP_{20cm} : 1.5GHz \leq f \leq 6GHz \rightarrow 3060 (mW) \end{cases}$
C	§1.1307(b)(3)(i)(C)	$\begin{cases} 0.3 \sim 1.34MHz \rightarrow ERP(W) = 1920R^2 \\ 1.34 \sim 30MHz \rightarrow ERP(W) = 3450R^2 / f^2 \\ 30 \sim 300MHz \rightarrow ERP(W) = 3.83R^2 \\ 300 \sim 1500MHz \rightarrow ERP(W) = 0.0128R^2 f \\ 1500 \sim 100000MHz \rightarrow ERP(W) = 19.2R^2 \end{cases}$ <p>f is in MHz; R is in m; <math>R &gt; \lambda / 2\pi</math></p>

### 2.3 Multiple RF Sources Exposure

Refer Std.	Exemption Exposure Thresholds (TL)
§1.1307(b)(3)(ii)(A)	<p>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)</p>
§1.1307(b)(3)(ii)(B)	$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k} \leq 1$ <p>a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(B) of this section for P , including existing exempt transmitters and those being added.</p> <p>b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.</p> <p>c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.</p> <p>P<sub>i</sub> = 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).</p> <p>P<sub>th,i</sub> = the exemption threshold power ( P<sub>th</sub> ) according to paragraph §1.1307(b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.</p> <p>ERP<sub>j</sub> = the ERP of fixed, mobile, or portable RF source j.</p> <p>ERP<sub>th,j</sub> = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph §1.1307(b)(3)(i)(C) of this section.</p> <p>Evaluated<sub>k</sub> = 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 at the location of exposure.</p> <p>Evaluated Limit<sub>k</sub> = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.</p>

## 2.4 MPE Calculation Method

The MPE was calculated at 46 cm to show compliance with the power density limit. The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

**E** = Electric field (V/m)

**P** = RF output power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

## 2.5 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

### WLAN 2.4GHz

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	3.10	29.96	33.06	0.50	1,383.9169	46.00	0.08536	1.00000	C	4063	0.3406
2.4G;D1D	3.10	29.96	33.06	0.50	1,383.9169	46.00	0.08536	1.00000	C	4063	0.3406
2.4G;D1D	3.46	29.99	33.45	0.50	1,513.9447	46.00	0.09338	1.00000	C	4063	0.3726

### WLAN 5GHz

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	4.97	28.32	33.29	0.50	1,459.1838	46.00	0.09001	1.00000	C	4063	0.3592
5.3G;D1D	5.15	23.92	29.07	0.50	552.2173	46.00	0.03406	1.00000	C	4063	0.1359
5.6G;D1D	5.24	23.95	29.19	0.50	567.6884	46.00	0.03502	1.00000	C	4063	0.1397
5.8G;D1D	5.28	29.49	34.77	0.50	2,051.6818	46.00	0.12655	1.00000	C	4063	0.5050
5.2G;D1D	5.06	27.65	32.71	0.50	1,276.7622	46.00	0.07875	1.00000	C	4063	0.3143
5.3G;D1D	5.53	23.46	28.99	0.50	542.1382	46.00	0.03344	1.00000	C	4063	0.1334
5.6G;D1D	5.83	23.58	29.41	0.50	597.1865	46.00	0.03684	1.00000	C	4063	0.1470
5.8G;D1D	6.19	29.03	35.22	0.50	2,275.6738	46.00	0.14037	1.00000	C	4063	0.5601



**WLAN 6GHz**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	25.24	25.24	0.50	228.6178	46.00	0.01410	1.00000	C	4063	0.0563
6.4G;D1D	-	25.00	25.00	0.50	216.3266	46.00	0.01334	1.00000	C	4063	0.0532
6.7G;D1D	-	26.62	26.62	0.50	314.1304	46.00	0.01938	1.00000	C	4063	0.0773
7.0G;D1D	-	22.90	22.90	0.50	133.3859	46.00	0.00823	1.00000	C	4063	0.0328
6.2G;D1D	-	28.26	28.26	0.50	458.2579	46.00	0.02827	1.00000	C	4063	0.1128
6.4G;D1D	-	26.43	26.43	0.50	300.6838	46.00	0.01855	1.00000	C	4063	0.0740
6.7G;D1D	-	27.54	27.54	0.50	388.2487	46.00	0.02395	1.00000	C	4063	0.0956
7.0G;D1D	-	24.63	24.63	0.50	198.6598	46.00	0.01225	1.00000	C	4063	0.0489

**Bluetooth**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	5.30	18.20	23.50	0.50	153.1475	46.00	0.00945	1.00000	C	4063	0.0377

**Thread**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	5.30	18.33	23.63	0.50	157.8011	46.00	0.00973	1.00000	C	4063	0.0388

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

**Simultaneous Transmission Analysis Mode: WLAN 2.4GHz + WLAN 5GHz + Bluetooth**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	3.46	29.99	33.45	0.50	1,513.9447	46.00	0.09338	1.00000	C	4063	0.3726
5.8G;D1D	6.19	29.03	35.22	0.50	2,275.6738	46.00	0.14037	1.00000	C	4063	0.5601
2.4G;BT-LE	5.30	18.20	23.50	0.50	153.1475	46.00	0.00945	1.00000	C	4063	0.0377
										Sum Ratio	0.9705
										Ratio Limit	1

**Simultaneous Transmission Analysis Mode: WLAN 2.4GHz + WLAN 5GHz + Thread**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	3.46	29.99	33.45	0.50	1,513.9447	46.00	0.09338	1.00000	C	4063	0.3726
5.8G;D1D	6.19	29.03	35.22	0.50	2,275.6738	46.00	0.14037	1.00000	C	4063	0.5601
2.4G;D1D	5.30	18.33	23.63	0.50	157.8011	46.00	0.00973	1.00000	C	4063	0.0388
										Sum Ratio	0.9716
										Ratio Limit	1



**Simultaneous Transmission Analysis Mode: WLAN 2.4GHz + WLAN 6GHz + Bluetooth**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	3.46	29.99	33.45	0.50	1,513.9447	46.00	0.09338	1.00000	C	4063	0.3726
6.7G;D1D	-	28.26	28.26	0.50	458.2579	46.00	0.02827	1.00000	C	4063	0.1128
2.4G;BT-LE	5.30	18.20	23.50	0.50	153.1475	46.00	0.00945	1.00000	C	4063	0.0377
										Sum Ratio	0.5231
										Ratio Limit	1

**Simultaneous Transmission Analysis Mode: WLAN 2.4GHz + WLAN 6GHz + Thread**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	3.46	29.99	33.45	0.50	1,513.9447	46.00	0.09338	1.00000	C	4063	0.3726
6.7G;D1D	-	28.26	28.26	0.50	458.2579	46.00	0.02827	1.00000	C	4063	0.1128
2.4G;D1D	5.30	18.33	23.63	0.50	157.8011	46.00	0.00973	1.00000	C	4063	0.0388
										Sum Ratio	0.5243
										Ratio Limit	1

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

Note 4: Refer as clause 2.3 Multiple RF Sources Exposure. Please follow below option and sum TL ration table.

Option	Sum TL Ratio_B	Option	Sum TL Ratio_C	Option	Sum TL Ratio_E
B	$\sum_{i=1}^a \frac{P_i}{P_{th,i}}$	C	$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}}$	E	$\sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k}$

Note: The above antenna gain was declared by manufacturer.

—————THE END—————