

Report No.: SZEM200700681006

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## RF Exposure Evaluation Report

Application No.: SZEM2007006810CR

Applicant: DSEA A/S

Address of Applicant: Kongebakken 9 Smoerum 2765 Denmark

Manufacturer: DSEA A/S

**Address of Manufacturer:** Kongebakken 9 Smoerum 2765 Denmark **Factory:** Dongguan Tai Sing Audio Technology Ltd.

Address of Factory: Sing Industrial Road, Bai Zhou Bian, Cheng, Dongguan 523113, China

**Equipment Under Test (EUT):** 

**EUT Name:** Expand Vision 3,Expand Vision 3T

Model No.: EWBT1 ♣

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: R3UEWBT1

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091

**Date of Receipt:** 2020-07-22

**Date of Test:** 2020-07-27 to 2020-08-21

Date of Issue: 2020-08-21

Test Result : PASS\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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## 2 Version

	Revision Record							
Version Chapter Date Modifier				Remark				
01		2020-08-21		Original				

Authorized for issue by:		
	Hany Ulu	
	Harry Wu/Project Engineer	_
	EvicFu	
	Eric Fu/Reviewer	



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## 4 General Information

## 4.1 General Description of EUT

T. 1	Ochiciai Besoniption ei	
	Product Name:	AC 100-240V, 50-60Hz
	Power adapter:	Model: EA1019AVRS-050
		Input: AC 100-240V, 50-60Hz, 0.8A
		Output: DC 5.0V, 3.0A
	For BT:	
	Bluetooth Version:	V5.0
	Operation Frequency:	2402MHz to 2480MHz
	Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
	Modulation Type:	GFSK, p/4DQPSK, 8DPSK
	Number of Channels:	79
	Channel Spacing:	1MHz
	Antenna Type:	FPC Antenna
	Antenna Gain:	2.98dBi
	For BLE:	
	Bluetooth Version:	V5.0
	Operation Frequency:	2402MHz to 2480MHz
	Modulation Type:	GFSK
	Number of Channels:	40
	Channel Spacing:	2MHz
	Data Rate:	1Mb/s,2Mb/s
	Antenna Type:	FPC Antenna
	Antenna Gain:	2.98dBi
	For 2.4G:	
	Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
	Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
		802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
	Number of Channels:	802.11b/g/n(HT20):11
	Channel Spacing:	5MHz
	Antenna Type:	FPC Antenna
	Antenna Gain:	Antenna 1 &2: 2.98dBi



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Remark:	Two Antennas can simultaneous transmit WIFI signal at 802.11n(HT20) mode.				
For 5G:					
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels	
	UNII	IEEE 802.11a	5180-5240	4	
	Band I	IEEE 802.11n/ac 20MHz	5180-5240	4	
		IEEE 802.11n/ac 40MHz	5190-5230	2	
		IEEE 802.11ac 80MHz	5210	1	
	UNII	IEEE 802.11a	5260-5320	4	
	Band II-A	IEEE 802.11n/ac 20MHz	5260-5320	4	
		IEEE 802.11n/ac 40MHz	5270-5310	2	
		IEEE 802.11ac 80MHz	5290	1	
	UNII	IEEE 802.11a	5500-5700	11	
	Band II-	IEEE 802.11n/ac 20MHz	5500-5700	11	
		IEEE 802.11n/ac 40MHz	5510-5670	5	
		IEEE 802.11ac 80MHz	5530-5690	3	
	UNII	IEEE 802.11a	5745-5825	5	
	Band III	IEEE 802.11n/ac 20MHz	5745-5825	5	
		IEEE 802.11n/ac 40MHz	5755-5795	2	
		IEEE 802.11ac 80MHz	5775	1	
Type of Modulation:	IEEE 802.1	1a: OFDM(BPSK/QPSK/1	6QAM/64QAM)		
	IEEE 802.1	1n: OFDM(BPSK/QPSK/1	6QAM/64QAM)		
	IEEE 802.1	1ac: OFDM (BPSK/QPSK	//16QAM/64QAM/	/256QAM)	
DFS mode:	Slave witho	ut radar detection			
Antenna Type	FPC Antenr	na			
Antenna Gain	Antenna 1&	2: 3.5dBi			
Remark1:	Two Antennas can simultaneous transmit WIFI signal at 802.11n(HT20), 802.11n(HT40), 802.11ac(HT20), 802.11ac(HT40), 802.11ac(HT80) modes.				



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### Remark:

Model No.: EWBT1

The EWBT1 has two different versions: Expand Vision 3 and Expand Vision 3T.

Only the Expand Vision 3T was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on software. Expand Vision 3T comes with Microsoft Teams application installed whereas Expand Vision 3 does not.



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### 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

### 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCC

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.4 Deviation from Standards

None

### 4.5 Abnormalities from Standard Conditions

None

## 4.6 Other Information Requested by the Customer

None.



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## 5 RF Exposure Evaluation

## 5.1 RF Exposure Compliance Requirement

### **5.1.1 Limits**

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)						
(A) Lim	(A) Limits for Occupational/Controlled Exposures									
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6						
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure							
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30 30						

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout\*G)/(4\* Pi \* R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

#### 5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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### 4.1.3 EUT RF Exposure Evaluation

For BT:

Antenna Gain: 2.98dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.99 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Tx Type	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
		Power (dBm)	(mW)	(mW/cm²)		
2402 MHz	SISO	7.29	5.36	0.002	1.0	PASS

Note: Refer to report No. SZEM200700681002 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For BLE:

Antenna Gain: 2.98dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.99 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Тх Туре	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)		Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm <sup>2</sup> )		
2402 MHz	SISO	7.31	5.38	0.002	1.0	PASS

Note: Refer to report No. SZEM200700681003 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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For 2.4G WIFI:

Antenna Gain 1 & 2: 2.98dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.99 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Тх Туре	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)		Peak Output Power (dBm)	to Antenna (mW)	at R = 20 cm (mW/cm <sup>2</sup> )		
2412 MHz	MIMO	23.27	212.32	0.084	1.0	PASS

Note: Refer to report No. SZEM200700681004 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 5G WIFI:

Antenna Gain 1 & 2: 3.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.24 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Тх Туре	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)		Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm²)		
5745 MHz	MIMO	19.51	89.33	0.040	1.0	PASS

Note: Refer to report No. SZEM200700681005 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

The simultaneous transmission result between of Bluetooth, WiFi:

The SAR Exclusion Threshold Level:

=CPD1 / LPD1 + CPD2 / LPD2

(CPD = Calculation power density, LPD = Limit of power density)

= (0.002/1) + (0.084/1) = 0.086 < 1

Since the conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

- End of the Report -



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