

RF Exposure Evaluation Report

Product Name : Transparent One Encore

Model No. : T1E

FCC ID : 2AJAAT1E

Applicant : Dongguan Meiloon Acoustic Equipment Co., Ltd.

Address : 77, Yuanlin Road, Feng Huang Gang Ind Estate, Tangxia Town,
523727 Dongguan City, Guangdong Province,

Date of Receipt : Oct. 04, 2018

Date of Declaration : Nov. 23, 2018

Report No. : 18A0064R-SAUSP03V00

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Nov. 23, 2018

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Product Name	Transparent One Encore
Applicant	Dongguan Meiloon Acoustic Equipment Co., Ltd.
Address	77, Yuanlin Road, Feng Huang Gang Ind Estate, Tangxia Town, 523727 Dongguan City, Guangdong Province,
Manufacturer	Vanatoo LLC.
Model No.	T1E
FCC ID.	2AJAAT1E
Trade Name	Vanatoo
Applicable Standard	FCC 47 CFR 1.1310
Test Result	Complied

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Tested By : wen Lee
(Senior Engineer / Wen Lee)

Approved By : 
(Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Transparent One Encore
Trade Name	Vanatoo
Model No.	T1E
FCC ID.	2AJAAT1E
Frequency Range	2402 – 2480MHz
Channel Number	79CH
Type of Modulation	FHSS: GFSK(1Mbps) / π / 4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	IFA Antenna
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Meiloon	1560634S	IFA Antenna	0.5dBi in 2.4 GHz

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: 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 1.1307(b)

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)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

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

2.2. Test Result of RF Exposure Evaluation

Product : Transparent One Encore
Test Item : RF Exposure Evaluation

BT Peak Gain: 0.5dBi

Band	Frequency	Conducted Peak Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mWc/m ²)	Pass/Fail
1Mbps	2441	2.32	1.71	0.000381	1	Pass
2Mbps	2441	2.02	1.59	0.000355	1	Pass
3Mbps	2441	1.32	1.36	0.000303	1	Pass

Note: The conducted output power is refer to report No.: 18A0064R-SAUSP03V00 from the DEKRA.