



RF EXPOSURE

EXEMPT REPORT

APPLICANT : Shenzhen eMeet technology Co.,Ltd.

PRODUCT NAME : Smart Conference Speaker

MODEL NAME : OfficeCore M2, OfficeCore M2 Record,
OfficeCore M2 Lite, OfficeCore M220 Lite

BRAND NAME : eMeet

FCC ID : 2ALCN-EMTM2

STANDARD(S) : 47CFR 2.1093
KDB 447498

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MORLAB

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Change History		
Version	Date	Reason for Change
1.0	2020-04-27	First edition



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	Shenzhen eMeet technology Co.,Ltd.
Applicant Address:	Unit 2C, Building A6, Guangming Science Park, Guanguang Road 3009, Guangming District, Shenzhen, China
Manufacturer:	Shenzhen eMeet intelligent technology Co.,Ltd.
Manufacturer Address:	Unit 2C, Building A6, Guangming Science Park, Guanguang Road 3009, Guangming New District, Shenzhen, China

1.2 Equipment Under Test (EUT) Description

Product Name:	Smart Conference Speaker
Serial No:	(N/A, marked #1 by test site)
Hardware Version:	V6
Software Version:	V2.0
Frequency Bands:	Bluetooth: 2402 ~ 2480MHz
Bluetooth Version:	4.2
Modulation Mode:	GFSK(1Mbps), π/4-DQPSK(EDR 2Mbps), 8-DPSK(EDR 3Mbps)
Antenna Type:	PCB Antenna
Antenna Gain:	2.50dBi

Note 1: According to the certificate holder, they declared that the models: OfficeCore M2, OfficeCore M2 Record, OfficeCore M2 Lite and OfficeCore M220 Lite have the same hardware and software, only different for software function optimization, everything else is the same. The main measuring model is OfficeCore M2, only the results for OfficeCore M2 were recorded in this report.



1.3 Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title	Method determination /Remark
1	47 CFR§2.1093	Radio Frequency Radiation Exposure Assessment: portable devices	No deviation
2	KDB 447498 D01v06	General RF Exposure Guidance	No deviation

Note 1: The test item is not applicable.

Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.



2. Device Category and RF Exposure Limit

Per user manual, this device is a Smart Conference Speaker. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

General Population/Uncontrolled Exposure:

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.



3. RF Output Power

<Bluetooth output power>

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	-3.75	-4.07	-4.26
	CH 39	2441	-3.74	-4.09	-4.16
	CH 78	2480	-3.58	-3.91	-4.09
Tune-up Limit			-2.0	-2.0	-3.0

Note:

1. According to KDB 447498 Section 4.3, SAR test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.
2. The average output power is from the report No. SZ20040126W01.



4. RF Exposure Assessment

➤ Standalone Transmission SAR Assessment:

1. According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)] ≤ 3.0.
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
2. When the device is used, 5mm as the most conservative minimum test separation distance was used for evaluating.

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test Distance (mm)	Result	Exclusion Thresholds for 1-g SAR
CH 78	2.48	-2.0	0.63	5	0.20	3.0

3. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2), the following equation must be used to estimate the standalone 1g SAR.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

Mode	Max. Tune-up Power (dBm)	Exposure Position	Body
		Test Distance (mm)	5
Bluetooth	-2.0	Estimated SAR (W/kg)	0.026

➤ Simultaneous SAR Assessment:

This device only incorporates one Bluetooth transmitter; therefore simultaneous SAR assessment is not required.



Annex A General Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
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END OF REPORT
