Shenzhen Most Technology Service Co., Ltd.
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Hi-tech Industry Park, Nanshan,Shenzhen,Guangdong,China

RF Exposure Evaluation Report

Report Reference No..... :	**MTEB25060007-H**
FCC ID..... :	**2BPER-A3731**
Compiled by (position+printed name+signature).. :	File administrators Alisa Luo
Supervised by (position+printed name+signature).. :	Test Engineer Sunny Deng
Approved by (position+printed name+signature).. :	Manager Yvette Zhou
Date of issue.....:	**Jun.03,2025**
Representative Laboratory Name. :	**Shenzhen Most Technology Service Co., Ltd.**
Address..... :	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
Applicant's name.....:	**Dongguan Zhun Peixi Trading Company**
Address..... :	Room 302, No. 16, Jimei 6th Lane, Humen Town, Dongguan City, Guangdong Province, China
Test specification/ Standard.....**:**	**47 CFR Part 1.1307;47 CFR Part 1.1310** **KDB447498D01 General RF Exposure Guidance v06**
TRF Originator.....:	Shenzhen Most Technology Service Co., Ltd.

Test item description.....:	PND Portable Car Stereo
Trade Mark.....:	N/A
Model/Type reference..... :	A3731
Listed Models ..... :	A3563、A3247
Modulation Type..... :	GFSK OFDM
Operation Frequency..... :	BT: From 2402MHz to 2480MHz WIFI 5G: From 5180MHz-5240MHz
Hardware Version.....	V2.2
Software Version.....	SK1.4-8168V6.3M-LAWMA-2505261917
Rating.....:	DC 12V
Result.....:	**PASS**

TEST REPORT

Equipment under Test	:	PND Portable Car Stereo
Model /Type	:	A3731
Listed Models	:	A3563、A3247
Remark		Only the model “A3731” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and Appearance colour is different.
Applicant	:	**Dongguan Zhun Peixi Trading Company**
Address	:	Room 302, No. 16, Jimei 6th Lane, Humen Town, Dongguan City, Guangdong Province, China
Manufacturer	:	**Dongguan Zhun Peixi Trading Company**
Address	:	Room 302, No. 16, Jimei 6th Lane, Humen Town, Dongguan City, Guangdong Province, China

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.06.03	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
4.3.1. Standalone SAR test exclusion considerations
Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 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/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f^2)	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				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f^2)	30
30–300	27.5	0.073	0.2	30
300–1500	.....	.....	f/1500	30
1500–100,000	.....	.....	1.0	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.

2.1.3 EUT RF Exposure

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-0.40	-0.40±1	0.6
Middle(2440MHz)	1.08	1.08±1	2.08
Highest(2480MHz)	1.99	1.99±1	2.99

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(2480MHz)	2.99	1.99	0.91	0.0005	1.0	Pass

Note: 1) Refer to report **MTEB25060007-R** for EUT test Max Conducted average Output Power value.
Note: 2) Pd = (Pout*G)/(4* Pi * R^2)=(1.99*1.23)/(4*3.1416*20^2)=0.0005
Note: 3)EUT's Bluetooth module is more than 20cm away from the human body.

WIFI 5G

WIFI 5G U-NII 1

IEEE for 802.11a			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(5180MHz)	7.379	7.379±1	8.379
Middle(5200MHz)	6.605	6.605±1	7.605
Highest(5240MHz)	8.749	8.749±1	9.749

IEEE for 802.11n(HT20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(5180MHz)	7.085	7.085±1	8.085
Middle(5200MHz)	7.276	7.276±1	8.276
Highest(5240MHz)	8.217	8.217±1	9.217

IEEE for 802.11n(HT40)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(5190MHz)	3.155	3.155±1	4.155
Highest(5230MHz)	8.007	8.007±1	9.007

Worst case: IEEE for 802.11a						
Channel	Maximum Peak Conduct (dBm)	Maximum Peak Conducted Output Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Highest(5240MHz)	9.749	9.44	-3.27dBi	0.0009	1.0	Pass

Note: 1) Refer to report **MTEB25060007-R1** for EUT test Max Conducted average Output Power value.
Note: 2) Pd = (Pout*G)/(4* Pi * R^2)=(9.44*0.47)/(4*3.1416*20^2)=0.0009
Note: 3)EUT's Wifi module is more than 20cm away from the human body.