

RF Exposure Evaluation Report

Report Reference No...... : **MTEB26010002-H**

FCC ID..... : **2BAA5-PSX615**

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Applicant's name..... : **AcoustMax International Corporation**

Address..... : Room 501,Lingyun Building ,HongLang North 2 Road, Baoan
District, ShenZhen, 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.

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Test item description..... : PSX615

Trade Mark..... : Pioneer

Model/Type reference..... : PSX615

Listed Models : PSX615-S, PSX615-X, PSX615-Z, PSX615-PRO, PSX615-PLUS

Modulation Type..... : GFSK
GFSK, $\pi/4$ DQPSK

Operation Frequency..... : From 2402MHz to 2480MHz

Hardware Version..... : V02

Software Version..... : V03

Rating..... : AC 90V~240V 2A

Result..... : PASS

TEST REPORT

Equipment under Test : PSX615

Model /Type : PSX615

Listed Models : PSX615-S, PSX615-X, PSX615-Z, PSX615-PRO, PSX615-PLUS

Remark : Only the model “PSX615” was tested, The electrical circuit design, layout, components used and internal wiring are identical, Only the model name and appearance color is different.

Applicant : AcoustMax International Corporation

Address : Room 501,Lingyun Building ,HongLang North 2 Road, Baoan District, ShenZhen, China

Manufacturer : AcoustMax International Corporation

Address : Room 501,Lingyun Building ,HongLang North 2 Road, Baoan District, ShenZhen, China

Test Result:	PASS
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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	2025.12.31	Initial Issue	Ekaterina Zhang

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: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$ 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

P_d is 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)	-0.50	-0.50 ± 1	0.50
Middle(2440MHz)	-1.20	-1.20 ± 1	-0.20
Highest(2480MHz)	-0.51	-0.51 ± 1	0.49

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/cm ²)	Limit	Result
Lowest(2402MHz)	0.50	1.12	0	0.00022	1.0	Pass

Note: 1) Refer to report **MTEB25070031-R** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (1.12 \cdot 1) / (4 \cdot 3.1416 \cdot 20^2) = 0.00022$

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-2.66	-2.66 ± 1	-1.66
Middle(2441MHz)	-3.21	-3.21 ± 1	-2.21
Highest(2480MHz)	-2.62	-2.62 ± 1	-1.62

$\pi/4$ DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-1.86	-1.86 ± 1	-0.86
Middle(2441MHz)	-3.21	-3.21 ± 1	-2.21
Highest(2480MHz)	-2.62	-2.62 ± 1	-1.62

Worst case: $\pi/4$ DQPSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Lowest(2402MHz)	-0.86	0.82	0	0.00016	1.0	Pass

Note: 1) Refer to report **MTEB26010002-R1** for EUT test Max Conducted average Output Power value.

Note: 2) $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (0.82 \cdot 1) / (4 \cdot 3.1416 \cdot 20^2) = 0.00016$

Simultaneous TX(EDR+BLE):

Mode	Power Density((mW/cm ²))		Conclusion
	Result	Limit	
Simultaneous TX	0.00038	1.0	Pass

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Results(EDR+WIFI): $0.00022/1 + 0.00016/1 = 0.00038$