

MPE TEST REPORT

Applicant Peavey Electronics Corp.

FCC ID I4S-UNITY4

Product DIGITAL MIXER

Model UNITY 4

Report No. EFTA25020028-IE-10-M1

Issue Date July 24, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in §2.1091 and FCC 47 CFR Part 1 1.1310. The test results show that the equipment tested can demonstrate the compliance with the requirements as documented in this report.

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Test Laboratory

MPE Test Report

Notes of the Test Report

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1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.

Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

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1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C			
Relative humidity	Min. = 20%, Max. = 80%			
Ground system resistance	< 0.5 Ω			
Analisms waise is absolved and found your law and in compliance with requirement of standard				

Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.



Description of Equipment Under Test

Client Information

Applicant	Peavey Electronics Corp.		
Applicant address	5022 Hartley Peavey Drive, Meridian, MS, USA 39305		
Manufacturer	Peavey Electronics Corp.		
Manufacturer address	5022 Hartley Peavey Drive, Meridian, MS, USA 39305		

General Technologies

EUT Description						
Model	UNITY 4					
Lab Internal SN	EFTA25020028-IE-10/S01					
Hardware Version	V1.0.0					
Software Version	V1.0.0					
	Band	TX (MHz)	RX (MHz)			
Frequency	Bluetooth	2400 ~ 2483.5	2400 ~ 2483.5			
	Bluetooth LE	2400 ~ 2483.5	2400 ~ 2483.5			
Date of Testing	June 24, 2025 ~ June 30,	2025				
Date of Sample Received	June 24, 2025					

Note:

- 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.
- 2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

3 Maximum Output Power and Tune Up and Antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by Numeric gain (G)=10^(antenna gain/10)

Band	Maximum Output Power		Maximum Tune up	Antenna Gain	Numeric
Danu	(dBm)	(mW)	(dBm)	(dBi)	Gain
Bluetooth	4.390	2.748	5.000	3.000	1.995
Bluetooth LE	3.010	2.000	5.000	3.000	1.995



4 MPE Limit

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following.

0.3-3.0 61	(i) Limits for Occ	NIBATIONIAI /CONTROLLED EVROS							
0.3-3.0 61		(I) LIMITS FOR OCCUPATIONAL/CONTROLLED EXPOSURE							
	14	1.63	*(100)	<i>≤</i> 6					
3.0-30 18	842/f	4.89/f	*(900/f ²)	<6					
30-300 61	1.4	0.163	1.0	<6					
300-1,500			f/300	<6					
1,500-100,000			5	<6					
,	(II) LIMITS FOR GENERAL	Population/Uncontrolled	EXPOSURE						
0.3-1.34 61	14	1.63	*(100)	<30					
1.34-30 82	24/f	2.19/f	*(180/f ²)	<30					
30-300 27	7.5	0.073	0.2	<30					
300-1,500			f/1500	<30					
1,500-100,000			1.0	<30					

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational /

controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



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The maximum permissible exposure for 1500~100,000MHz is 1.0. So

Band	The Maximum Permissible Exposure (mW/cm²)				
Bluetooth	1.000				



5 RF Exposure Evaluation Result

RF exposure evaluation method is based on KDB 447498 D01, this calculation is based on the conducted power, maximum power and antenna gain with provides the minimum separation distance. The formula shown below is from OET Bulletin 65 Edition 97-01 Per KDB 447498 D01:

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$$S = PG / 4\pi R^2$$

Where: S = power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	Maximum Tune up (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	PG (mW)	Result (mW/cm²)	Limit Value (mW/cm²)	Conclusion
Bluetooth	5.000	3.000	8.000	6.310	0.001	1.000	Pass

Note: **R** = 20cm π = 3.1416

Note: For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

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ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

******END OF REPORT ******