

RF EXPOSURE Test Report

Report No. : MTi260420031-0101E2

Date of issue : 2026-05-27

Applicant : Tiny Vinyl LLC.

Product : 4 inch Vinyl Record Player

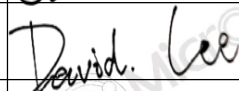
Model(s) : TVP-02470

FCC ID : 2BVLT02470

Shenzhen Microtest Co., Ltd.

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Test Result Certification		
Applicant	Tiny Vinyl LLC.	
Applicant Address	107 Bellevue Ave south, Nashville, 37205, TN USA	
Manufacturer	SHENZHEN TTB TECHNOLOGY CO.,LTD	
Manufacturer Address	Unit 302, Bldg. 57, Tianliao 2nd Industry Pk, Yutang, Guangming, Shenzhen China	
Factory	SHENZHEN TTB TECHNOLOGY CO.,LTD	
Factory Address	Unit 302, Bldg. 57, Tianliao 2nd Industry Pk, Yutang, Guangming, Shenzhen China	
Product description		
Product name	4 inch Vinyl Record Player	
Trademark	N/A	
Model name	TVP-02470	
Series Model(s)	N/A	
Standards	47 CFR Part 2.1091	
Test method	KDB 447498 D01 v06	
Testing Information		
Date of test	2026-04-27 to 2026-05-21	
Test Result	Pass	
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Reviewed by:	David Lee	
Approved by:	Lewis Lian	

1 RF EXPOSURE EVALUATION

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)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

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 = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm(20cm)

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

2 Measurement Result

BT:

Operation Frequency: 2402-2480MHz,
Power density limited: 1mW/ cm²

Antenna Type: PCB antenna

Antenna gain: 1.2dBi

R=20cm

$mW=10^{(dBm/10)}$

Antenna gain Numeric= $10^{(dBi/10)}=10^{(1.2/10)}=0.92$

BT:

Channel Freq. (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain		(mW/cm ²)	(mW/cm ²)
				(dBm)	(mW)	(dBi)	Numeric		
2402	GFSK	-6.54	-6±1	-5	0.316	1.2	1.32	0.0001	1
2441		-7.12	-7±1	-6	0.251	1.2	1.32	0.0001	1
2480		-7.35	-7±1	-6	0.251	1.2	1.32	0.0001	1
2402	π/4-DQPSK	-4.30	-4±1	-3	0.501	1.2	1.32	0.0001	1
2441		-4.92	-4±1	-3	0.501	1.2	1.32	0.0001	1
2480		-5.28	-5±1	-4	0.398	1.2	1.32	0.0001	1
2402	8DPSK	-3.68	-3±1	-2	0.631	1.2	1.32	0.0002	1
2441		-4.38	-4±1	-3	0.501	1.2	1.32	0.0001	1
2480		-4.80	-4±1	-3	0.501	1.2	1.32	0.0001	1

Conclusion:

For the max result: $0.0002 \leq 1.0$ for 1g SAR test exclusion threshold, No SAR is required.

Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
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5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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