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Project No.: TM-2203000010P Report No.: TMWK2203000752KR

> KDB 447498 D03 47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

ANALOG TURNTABLE

Model: TN-400BT

Data Applies To: N/A

Trade Name: TEAC

Issued to

TEAC CORPORATION
1-47 Ochiai, Tama-shi, Tokyo 206-8530, Japan

Issued By

Compliance Certification Services Inc. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Issued Date: May 03, 2022

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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REVISION HISTORY

Rev.	Issue Date	Issue Date Revisions		Revised By
00	May 03, 2022	Initial Issue	ALL	Angel Cheng



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1. TEST RESULT CERTIFICATION

We hereby certify that:

The equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirement of the applicable standards. The test record, data evaluation and Equipment under Test (EUT) configurations represented herein are true and accurate accounts of the measurement of the sample's RF characteristics under the conditions specified in this report.

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
KDB 447498 D03				
47 C.F.R. Part 1, Subpart I, Section 1.1310	No non-compliance noted			
47 C.F.R. Part 2, Subpart J, Section 2.1091	<u>-</u>			

Statements of Conformity

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Approved by:

Kevin Tsai

Deputy Manager

Compliance Certification Services Inc.

Komil Tani





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2. LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

3. EUT SPECIFICATION

EUT	ANALOG TURNTABLE					
Model	TN-400BT					
Brand	TEAC	TEAC				
RF Module	Brito	Brito Model: MD-BLT-QR3040I				
Frequency band (Operating)	 ■ 802.11b/g/n HT20: 2412MHz ~ 2462MHz 802.11n HT40: 2422MHz ~ 2452MHz ✓ Others 2402MHz ~ 2480MHz (BT3.0 BT 4.0 BT5.0) 					
Device category	1 == `	☐ Portable (<20cm separation) ☐ Mobile (>20cm separation) ☐ Others				
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm²) ☐ General Population/Uncontrolled exposure (S=1mW/cm²)					
Antenna Specification	Multilayer Chip Antenna	/ Gain: 2.31 dBi (Nume	ric gain: 1.70) worst			
Maximum Average output power	GFSK: 8-DPSK GFSK(4.0) GFSK(5.2)	8.05 dBm (0.51 dBm (8.241 mW) 6.383 mW) 1.125 mW) 1.099 mW)			
Maximum Tune up Power	GFSK: 8-DPSK: GFSK(4.0) GFSK(5.2)	9.50 dBm 8.50 dBm 1.00 dBm	8.913 mW) 7.079 mW) 1.259 mW) 1.230 mW)			
Evaluation applied	✓ MPE Evaluation*✓ SAR Evaluation✓ N/A					
Reported Date	March 31, 2022					

Note: RF power data reference report (TMTN2203000304NR & TMTN2203000305NR)



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4. TEST RESULTS

No non-compliance noted.

Calculation

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and

$$d(cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$



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5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using d = 20 cm into Equation 1:

 $S = 0.000199 \times P \times G$

Where P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

	GFS	K:							
	Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result	
	Mid	2441	8.913	1.70	20	0.0030	1	Pass	
	8-DPSK:								
	Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result	
	Low	2402	7.079	1.70	20	0.0024	1	Pass	
	GFSK(4.0):								
	Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result	
Ī	Mid	2441	1.259	1.70	20	0.0004	1	Pass	

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Ī	Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
ĺ	Mid	2441	1.230	1.70	20	0.0004	1	Pass