



RF EXPOSURE Test Report

Report No.: MTi240710008-01E2

Date of issue: 2024-07-30

Applicant: Modern Marketing Concepts, Inc.

Product: RIFF RECORD PLAYER WITH SPEAKERS

Model(s): CR7502A-WA, CR7502A-XX, CR7502X-XX can be replaced by letter from "A" to "Z", number from "0" to "9" or blank.

FCC ID: AUSCR7502A

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.cn>



Instructions

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2. The test results of this report are only responsible for the samples submitted;
3. This report is invalid without the seal and signature of the laboratory;
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5. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



Test Result Certification	
Applicant:	Modern Marketing Concepts, Inc.
Address:	1220 E Oak St. Louisville Kentucky United States
Manufacturer:	Modern Marketing Concepts, Inc.
Address:	1220 E Oak St. Louisville Kentucky United States
Product description	
Product name:	RIFF RECORD PLAYER WITH SPEAKERS
Trademark:	CROSLEY
Model name:	CR7502A-WA
Serial Model:	CR7502A-XX, CR7502X- XX can be replaced by letter from "A" to " Z", number from "0" to "9" or blank.
Standards:	47 CFR Part 2.1091
Test procedure:	KDB 447498 D01 v06
Date of Test	
Date of test:	2024-07-24 to 2024-07-30
Test result:	Pass

Test Engineer	:	<i>James Qin</i>
		(James Qin)
Reviewed By	:	<i>David. Lee</i>
		(David Lee)
Approved By	:	<i>Leon chen</i>
		(Leon Chen)

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.

Measurement Result

BT:

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm²

Antenna Type: PCB Antenna;

Antenna gain: 1.2 dBi

R=20cm

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

Antenna gain Numeric= $10^{(dBi/10)}=10^{(1.2/10)}=1.32$

BR+EDR:

Channe l Freq. (MHz)	modulation	conducted power	Tune- up power (dBm)	Max		Antenna		Evaluation result (mW/cm ²)	Power density Limits (mW/c m ²)
		(dBm)		tune-up power		Gain			
				(dBm)	(mW)	(dBi)	Numeric		
2402	GFSK	-10.67	-10±1	-9	0.126	1.2	1.32	0.000033	1
2441		-11.15	-11±1	-10	0.100	1.2	1.32	0.000026	1
2480		-12.08	-12±1	-11	0.079	1.2	1.32	0.000021	1
2402	π/4- DQPSK	-9.11	-9±1	-8	0.158	1.2	1.32	0.000042	1
2441		-9.7	-9±1	-8	0.158	1.2	1.32	0.000042	1
2480		-10.26	-10±1	-9	0.126	1.2	1.32	0.000033	1
2402	8DPSK	-8.54	-8±1	-7	0.200	1.2	1.32	0.000052	1
2441		-9.28	-9±1	-8	0.158	1.2	1.32	0.000042	1
2480		-10.52	-10±1	-9	0.126	1.2	1.32	0.000033	1

Conclusion:

For the max result: 0.000052 ≤ 1.0 SAR, No SAR is required.

----END OF REPORT----