

TEST REPORT

Product Name : Turntable Record Player
Brand Mark : N/A
Model No. : 618A
*** Extension Model** : DS-618A,MF-618A, DS-618XXX
FCC ID : 2A6JN-618A
Report Number : BLA-EMC-202309-A4503
Date of Sample Receipt : 2023/9/12
Date of Test : 2023/9/14 to 2023/10/25
Date of Issue : 2023/10/26
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure
Guidance v01
Test Result : Pass

* NOTE: DS-618XXX(where "x" can be 0-9, A-Z, "-" or blank and means color code of unit or regional certification)

Prepared for:

DESONIC (HUIZHOU) ELECTRONICS CO.,LTD.
No.10 Qingtang North Road, Xiaojinkou , Huizhou ,Guangdong,China
516023

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Date:

2023/10/26



REPORT REVISE RECORD

Version No.	Date	Description
00	2023/10/26	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

2 GENERAL INFORMATION

Applicant	DESONIC (HUIZHOU) ELECTRONICS CO.,LTD.
Address	No.10 Qingtang North Road, Xiaojinkou , Huizhou ,Guangdong,China 516023
Manufacturer	DESONIC (HUIZHOU) ELECTRONICS CO.,LTD.
Address	No.10 Qingtang North Road, Xiaojinkou , Huizhou ,Guangdong,China 516023
Product Name	Turntable Record Player
Test Model No.	618A
Extension Model	DS-618A,MF-618A, DS-618XXX
Remark	where "X" can be 0-9, A-Z, "-" or blank and means color code of unit or regional certification All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose.

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	1.0
Software Version	V1.0
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK,pi/4DQPSK,8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	PCB Antenna
Antenna Gain:	1.58dBi(Provided by the customer)

4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

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No tests were sub-contracted.

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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to 447498 D04 Interim General RF Exposure Guidance v01

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.

5.2 LIMITS

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

Ant gain = 1.58dBi

Max Output power = 2.72dBm @EDR@ 2402MHz

ERP = 2.72dBm + 1.58dBi - 2.15 = 2.15dBm

So

worse case :

$10^{0.215} = 1.64\text{mW} < 3060\text{ mW}$

Comply with RF exposure exemption limit.

----END OF REPORT----

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