NVLAP LAB CODE 600341-0

MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

Applicant:	**Shenzhen Juxingcheng Technology Co.,Ltd.**
Address:	**903, No.16, 7th Lane, Daguangkan Village, Bantian Street, Longgang, Shenzhen, China**
Product Name:	**Car Stereo**
FCC ID:	**2BOYC-A3642**
Standard(s):	**47 CFR §1.1310, 47 CFR §2.1091, 47 CFR §15.247(i), 47 CFR §15.407(f)**
Report Number:	**2402A65766E-RF-00D**
Report Date:	**2025/8/26**

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

Reviewed By:	**Pedro Yun**
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402A65766E-RF-00D	Original Report	2025/8/26

1. GENERAL INFORMATION

1.1 General Description of Equipment under Test

EUT Name:	Car Stereo
EUT Model:	A3642
Multiple Models:	A3221, A3354, A3355, A3396, A3417, A3422, A3834, A3835, A3952, A3983, A3984
Rated Input Voltage:	DC 9-16V (Typical: DC 12V)
Serial Number:	2WJ2-1
EUT Received Date:	2024/12/20
EUT Received Status:	Good
Note: The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Infrared Remote Controller	Unknown	Unknown	DC 3V from AAA Battery
Microphone	Unknown	Unknown	Unshielded without ferrite core, 1.2m in length
Power Cable	Unknown	Unknown	Unshielded without Ferrite Core,0.15m in length
RCA Cable	Unknown	Unknown	Unshielded without Ferrite Core,0.15m in length

2. RF EXPOSURE EVALUATION (MPE)

2.1 RF Exposure Evaluation

2.1.1 Applicable Standard

According to subpart 15.247(i), 15.407(f) and subpart §1.1310, 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 level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
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
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

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

According to §1.1310 and §2.1091 RF exposure is calculated.

2.1.2 Calculation formula:

Prediction of power density at the distance of the applicable MPE limit
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

2.1.3 Calculated Data

Mode	Frequency Range (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
BT	2402-2480	-9.09	0.123	2.0	1.58	20	0.00004	1.00
5GHz WIFI	5180-5240	5.05	3.199	17	50.12	20	0.03191	1.00

Note: The Conducted output power including Tune-up Tolerance provided by manufacturer.

Simultaneous transmission:

BT and 5G WIFI can transmit simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$S_{BT}/S_{limit\text{-}BT} + S_{5G\ WIFI}/S_{limit\text{-}5G\ WIFI}$

=0.03195

< 1.0

Result: Compliant. The device compliant Simultaneous transmission at 20cm distances.

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402A65766E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402A65766E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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