



RF Exposure Evaluation Report

Application No.: DNT2507240486R7981-10148
Applicant: Foshansi Xinliansheng Xinxingcailiao Youxiangongsi
Address of Applicant: FENGCHIFENGDONGCUN FENGCHIDONGLU 14 HAOPU NANHAIQU DALIZHEN FOSHAN 528000 GAUNGDONG CHINA
EUT Description: Car Audio Receiver
Model No.: 006-01-7U
FCC ID: 2BRR1-006-01-7U
Power supply DC 12V
Trade Mark: DATTON
47 CFR Part 2.1091
Standards: FCC KDB 447498 D01 v06
Date of Receipt: 2025/7/24
Date of Test: 2025/7/25 to 2025/8/18
Date of Issue: 2025/8/19
Test Result: PASS

Prepared By: Wayne Lin (Testing Engineer)



Reviewed By: Pencils Chen (Project Engineer)

Approved By: Yiwei Chen (Manager)

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	August 19, 2025	Valid	Original Report



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1 General Information

1.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xingfa Road, Wusha Liwu, Chang'an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

1.2 General Description of EUT

Manufacturer:	MeiCanXin electronics technology Co.,LTD
Address of Manufacturer:	No.18Yongchang Road,Yuanzhou Town, Huizhou City,Guangdong Province,China
EUT Description::	Car Audio Receiver
Test Model No.:	006-01-7U
Additional Model(s):	/
Serial Number	PR2507240486R7981
Power Supply	DC 12V
Trade Mark:	DATTON
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	BT:2402-2480MHz; WIFI:2412-2462MHz
Sample Type:	<input type="checkbox"/> Portable Device, <input type="checkbox"/> Module, <input checked="" type="checkbox"/> Mobile Device
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Gain:	<input checked="" type="checkbox"/> Provided by applicant -0.58dBi

Remark:

*All models are just name differences, motherboard, PCB circuit board, chip, electronic components, appearance is all the same.

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

- FCC, USA

Designation Number: CN1348

- **A2LA (Certificate No. 7050.01)**

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

- **Innovation, Science and Economic Development Canada**

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

1.4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	DTS Bandwidth	±0.0196%
2	Maximum Conducted Output Power	±0.686 dB
3	Maximum Power Spectral Density Level	±0.743 dB
4	Band-edge Compliance	±1.328 dB
5	Unwanted Emissions In Non-restricted Freq Bands	9KHz-1GHz:±0.746dB 1GHz-26GHz: ±1.328dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

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 Exposures				
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
300-1500	/	/	f/300	6
1500-100,000	/	/	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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

$\pi = 3.1416$

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

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



2.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

2.1.3 EUT RF Exposure Evaluation

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 / 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Test Mode	Antenna	Freq(MHz)	Power [dBm]
DH5	Ant1	2402	-0.95
		2441	-0.71
		2480	-0.76
2DH5	Ant1	2402	-0.28
		2441	-0.08
		2480	-0.21
3DH5	Ant1	2402	0.08
		2441	0.29
		2480	0.18
BLE_1M	Ant1	2402	-1.10
		2440	-0.90
		2480	-1.02
BLE_2M	Ant1	2402	-0.92
		2440	-0.70
		2480	-0.69
11B	Ant2	2412	17.13
		2437	16.59
		2462	16.69
11G	Ant2	2412	17.02
		2437	18.49
		2462	17.43
11N20SISO	Ant2	2412	17.15
		2437	18.13
		2462	17.58
11N40SISO	Ant2	2422	15.45
		2437	16.13
		2452	16.28
11AX20SISO	Ant2	2412	15.50
		2437	16.29
		2462	15.05
11AX40SISO	Ant2	2422	14.94
		2437	15.62
		2452	14.71



The Worst Mode	Antenna	Peak output power (dBm)	Target power (dBm)	MAX Target power (dBm)	Antenna gain		Power Density (S) (mW/cm ²)	Limited of Power Density (S) (mW/cm ²)	Test Result	Distance (cm)
					(dBi)	(Linear)				
2.4G Band										
3DH5	Ant1	0.29	0±1	1	-0.58	0.8750	0.0002	1	Complies	20
802.11g	Ant2	18.49	18±1	19	-0.58	0.8750	0.0138	1	Complies	20

BT+2.4GWIFI

Power Density (S) (mW/cm ²) BT	Power Density (T) (mW/cm ²) WIFI	Total Ratio	Limit	Result
0.0002	0.0138	0.014	1	Complies

The End Report