



RF TEST REPORT

Product Name: Pellet Grill

Model Name: 910-0513, 910-0512, 910-0512B

FCC ID: 2A3GE910-0513

Issued For : Nexgrill Industries, Inc

14050 Laurelwood Pl, Chino CA 91710 USA

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25G317HA03

Sample Received Date: Aug. 01, 2025

Date of Test: Aug. 01, 2025 ~ Aug. 18, 2025

Date of Issue: Aug. 18, 2025

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TEST REPORT CERTIFICATION

Applicant: Nexgrill Industries, Inc
Address: 14050 Laurelwood Pl, Chino CA 91710 USA

Manufacturer: Nexgrill Industries, Inc
Address: 14050 Laurelwood Pl, Chino CA 91710 USA

Factory: Keesung Manufacturing Co., LTD
Address: No. 88 Yuwotou Road Dongchong, Nansha Guangzhou
Guangdong China 511475

Product Name: Pellet Grill

Trademark: Nexgrill

Model Name: 910-0513, 910-0512, 910-0512B

Sample Status: Normal

Sample Number: LGT2508012-1

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS

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Revision History

Rev.	Issue Date	Contents
00	Aug. 18, 2025	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Pellet Grill	
Trademark:	Nexgrill	
Test Model Name:	910-0513	
Series Model:	910-0512, 910-0512B	
Model Difference:	910-0512 is same as 910-0513 except for size. 910-0512B is same as 910-0512, only different is 910-0512B with heat shield inside the barrel and underneath the front table.	
Frequency Bands:	Bluetooth	2402-2480MHz
	2.4G WLAN	802.11b/g/n(20MHz): 2412~2462 MHz 802.11n (40MHz):2422~2452MHz
Rating:	Input: 120V/60Hz 3.3A	
Hardware Version:	V01	
Software Version:	V01	

1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the 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)
Limits for Occupational / controlled Exposures			
0.3-3.0	614	1.63	*(100)
3.0-30	1842/f	4.89/f	*(900/f ²)
30-300	61.4	0.163	1.0
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
0.3-1.34	614	1.63	*(100)
1.34-30	824/f	2.19/f	*(180/f ²)
30-300	27.5	0.073	0.2
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

* = Plane-wave equivalent power density.

Friss Formula

Friss 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

π = 3.1416

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

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



2.5 TEST RESULT

Turn up Result

Mode	Turn up Power
BT-GFSK	7.5±1dBm
BT-π/4-DQPSK	9.5±1dBm
BT-8DPSK	10±1dBm
BLE 1M-GFSK	7±1dBm
2.4G WIFI-802.11b	16±1dBm
2.4G WIFI-802.11g	15.5±1dBm
2.4G WIFI-802.11n(HT20)	15.5±1dBm
2.4G WIFI-802.11n(HT40)	15.5±1dBm

The MPE result of worst mode:

RF Function	Frequency (MHz)	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BLE	2480	8	6.31	2.67	1.85	0.002	1	0.002	Pass
BT	2480	11	12.59	2.67	1.85	0.005	1	0.005	Pass
2.4G WIFI	2412	17	50.12	2.67	1.85	0.018	1	0.018	Pass

Multiple transmission: $0.002+0.005+0.018=0.025 < 1$

Note:

1. The Maximum Power Density is less than the limit, complies with the exemption requirements.

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