



RADIO TEST REPORT

Report No: STS2108138H01

Issued for

The Boltz Group, LLC

3204 Skylane Dr Suite A. Carrollton, TX 75006, United States

Product Name:	Oakmont Pellet Grill
Brand Name:	Cuisinart
Model Name:	SMK2036AS
Series Model:	N/A
FCC ID:	2AURUSMK2036AS
Test Standard:	FCC 47CFR §2.1091

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Test Report Certification

Applicant's Name : The Boltz Group, LLC
Address : 3204 Skylan Dr Suite A. Carrollton, TX 75006, United States
Manufacturer's Name : Shanghai Homsteel Industry CO., LTD
Address : No.49 Tianying Rd, Qingpu Industry Park, Shanghai

Product Description

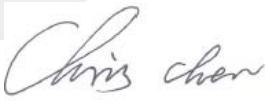
Product Name : Oakmont Pellet Grill
Brand Name : Cuisinart
Model Name : SMK2036AS
Series Model : N/A

Standards : FCC 47CFR §2.1091

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Date of Test :

Date of receipt of test item : 19 Aug. 2021
Date (s) of performance of tests : 19 Aug. 2021 ~ 23 Sept. 2021
Date of Issue : 23 Sept. 2021
Test Result : **Pass**

Testing Engineer : 

(Chris Chen)

Technical Manager : 

(Sean she)

Authorized Signatory : 

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	23 Sept. 2021	STS2108138H01	ALL	Initial Issue





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Oakmont Pellet Grill									
Brand Name	Cuisinart									
Model Name	SMK2036AS									
Series Model	N/A									
Model Difference	N/A									
Product Description	<p>The EUT is Oakmont Pellet Grill</p> <table border="1"><tr><td>Operation Frequency:</td><td>BLE: 2402~2480 MHz 2.4G WLAN: 802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz</td></tr><tr><td>Modulation Type:</td><td>BLE: GFSK 2.4G WLAN: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM</td></tr><tr><td>Antenna gain:</td><td>BLE: -1.2dBi 2.4G WLAN: 3dBi</td></tr><tr><td>Antenna Designation:</td><td>BLE: PCB Antenna 2.4G WLAN: FPC Antenna</td></tr></table>		Operation Frequency:	BLE: 2402~2480 MHz 2.4G WLAN: 802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz	Modulation Type:	BLE: GFSK 2.4G WLAN: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM	Antenna gain:	BLE: -1.2dBi 2.4G WLAN: 3dBi	Antenna Designation:	BLE: PCB Antenna 2.4G WLAN: FPC Antenna
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Antenna gain:	BLE: -1.2dBi 2.4G WLAN: 3dBi									
Antenna Designation:	BLE: PCB Antenna 2.4G WLAN: FPC Antenna									
Rating	Input: AC 120V/60Hz									
Hardware Version Number	V23									
Software Version Number	V02									

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



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			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

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

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

Mode	Detector	Turn up Power
GFSK	AV	-2±1dBm
802.11b	AV	13±1dBm

ANT Gain (G)

2402-2483.5MHz: GFSK: -1.2dBi (gain of antenna in linear scale=0.759)

802.11b: 3dBi (gain of antenna in linear scale=1.995)

Protocol	Max Turn up Power (dBm)	Max Turn up Power (mW)	ANT Gain(gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
GFSK	-1	0.7943	0.759	0.0001	1	Pass
802.11b	14	25.1189	1.995	0.0100	1	Pass

Note: The Bluetooth and WLAN can't simultaneous transmission at the same time.

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