

Prüfbericht-Nr.: <i>Test report no.:</i>	CN254DL5 001	Auftrags-Nr.: <i>Order no.:</i>	170410351	Seite 1 von 15 Page 1 of 15
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	--	Auftragsdatum: <i>Order date:</i>	2025-01-25	
Auftraggeber: <i>Client:</i>	CUISONIC, INC. 16192 Coastal Highway, Lewes, Delaware 19958 USA			
Prüfgegenstand: <i>Test item:</i>	Ultrasonic 8" Chef's Knife			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	C-200			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-01-25	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003832998-001			
Prüfzeitraum: <i>Testing period:</i>	Refer to test report			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2025-10-03	Ausstellungsdatum: <i>Issue date:</i>	2025-10-28	
Stellung / Position:	Project Engineer	Stellung / Position:	Authorizer	
Sonstiges / <i>Other:</i>	The BT characteristics of this product are evaluated in this report. The product contains module ESP32-S3-MINI-1 that have already been certified by FCC and IC as below. Based on the module, C2PC change, according to this change, re-test RF power & radiated spurious emission items, other test data refer to original report FR1N0918A and CR1N0918ATX. FCC ID:2AC7Z-ESPS3MINI1 IC:21098-ESPS3MIN1 HMN: Seattle Ultrasonics C-200 Ultrasonic Chef's Knife			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Prüfbericht - Nr.:
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Test Summary

5.1.1 RADIATED SPURIOUS EMISSION

RESULT: *Pass*

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth BLE mode

Appendix B: Photographs of the Test Set-up photo

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

1&2/F, Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, China.

FCC Registration No.: CN1207

IC Registration No.: CN0018

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Test Equipment	Model	Manufacturer	Serial No.	Cal Until	Calibration Interval
Radio Spectrum Test					
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	2024-12-03	1 year
Signal Generator	SMB100A	Rohde & Schwarz	115613	2025-03-04	1 year
Climatic Chamber	EL-04KA	GZ-ESPEC	6107116	2025-03-04	1 year
Attenuator	3.5TS2-6dB-26.5G	SHX	12042001	2025-02-28	2 years
Combiner/Divider	1515	Weinschel	PG325	2025-02-28	2 years
RF Control Unit	JS0806-2	Tonscend Technology	N/A	2025-03-22	1 year
Spurious Emission (25MHz~26.5GHz)					
EMI Test Receiver	ESW 8	Rohde & Schwarz	101312	2024-11-16	1 year
Trilog-Broadband Antenna	VULB9168 (30MHz-1GHz)	SCHWARZBECK MESSELEKTRONIK	684	2025-08-28	2 years
Double-Ridged Waveguide Horn Antenna	HF907 (1-18GHz)	Rohde & Schwarz	100377	2026-03-07	2 years
Pre-amplifier	TAP01018050	Tonscend Technology	AP23L8060327	2025-01-02	1 year
Band Reject Filter	BRM50702	Micro-Tronics	023	2026-07-11	2 years
Standard Gain Horn Antenna	3160-09 (18-26.5GHz)	EMCO	21642	2025-01-16	3 years
Pre-amplifier	AFS33-18002650-30-8P-44	MITEQ	1108282	2025-08-01	1 year
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A		3 years
Spurious Emission (below 30MHz)					
Loop Antenna	HFH2-Z2 (<30MHz)	Rohde & Schwarz	100111	2025-06-12	2 years
EMI Test Receiver	ESW 8	Rohde & Schwarz	101312	2024-11-16	1 year
Conducted Power					
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	2024-12-03	1 year
Power Meter	NRX	Rohde & Schwarz	100863	2025-03-04	1 year
Average Power Sensor	NRP6A	Rohde & Schwarz	106142	2025-03-04	1 year
RF Control Unit	JS0806-2	Tonscend Technology	N/A	2025-03-22	1 year

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangzhou) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Guangdong) Ltd. EMC Laboratory. Test facility located at 1&2/F, Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The submitted sample C-200 is an ultrasonic Chef's Knife for household use only. It belongs to Consumer ISM equipment and is sold without adapters.

The EUT has wireless charging receiver and BT functions.

This report only evaluated the BT characteristics of the product.

This host C-200 includes a certified wireless module: ESP32-S3-MINI-1, for the other EMR test data of essential requirements, refer to the module (ESP32-S3-MINI-1) report with report No: FR1N0918A and CR1N0918ATX. issued by TA Technology (Shanghai) Co., Ltd.

According to the above information, all applicable tests and RSE tests are performed at C-200.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	wireless module
Type Designation (wireless module)	ESP32-S3-MINI-1 FVIN: V1.1.3 FCC ID:2AC7Z-ESPS3MINI1 IC:21098-ESPS3MINI1
Type Designation (host)	C-200 HMN: Seattle Ultrasonics C-200 Ultrasonic Chef's Knife
Trade Mark(s)	 Seattle Ultrasonics™
Type of Device	Only one adaptive mode is implemented and could not operate in a non-adaptive mode
Classification of Receiver	Category 1
Operating Temperature Range	4°C ~ 30°C
Operating Voltage	Rated: 3.0-4.2 VDC, 10W Max For built-in Li-ion battery: Input: DC 5V, 0.5A via Type C interface of battery or DC 5V, 5W via wireless charging coil left or right Output: DC 3.7V, 2.7A For ultrasonic Chef's Knife: DC 3.7VDC, 2.5A via built-in lithium-ion battery DC 5V, 5W via wireless charging coil left or right
Testing Voltage	Built-in Battery powered
Technical Specification of wireless function	
Technical Specification of BLE	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2MHz

General Information of EUT	Value
Data Rate:	1Mbps,2Mbps
Antenna Type:	Integral Antenna
Antenna Gain:	4.54 dBi
Technical Specification of WPC (charging case, left and right coil)	
Frequency Range:	110 - 205 kHz
Operating frequency	110 - 205 kHz
Type of Modulation:	ASK
Antenna Type	Inductive Loop Coil Antenna
Antenna Gain:	0 dBi (Provided by the Client)
Wireless output	Wireless 5W max
Note: Charging can only be wired or wireless; it is physically impossible to do both at once. All information is provided by customer confirmation.	

Table 4: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode (Bluetooth LE mode)
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, BLE connecting mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|------------------------------|-------------------------|
| - Application Form | - Operation Description |
| - ID Label and Location Info | - Block Diagram |
| - Schematics | - PCB Layout |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output to measure its highest possible radiation and conducted level. The test modes were adapted according to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted according to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2020 and ANSI C63.10-2020+C63.10a-2024.

According to clause 3.1, all tests were performed on model C-200 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Notebook	Lenovo	T14	PF-35VTG1	NA
Mobile phone	MI	5s Plus	3963ac08	NA

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

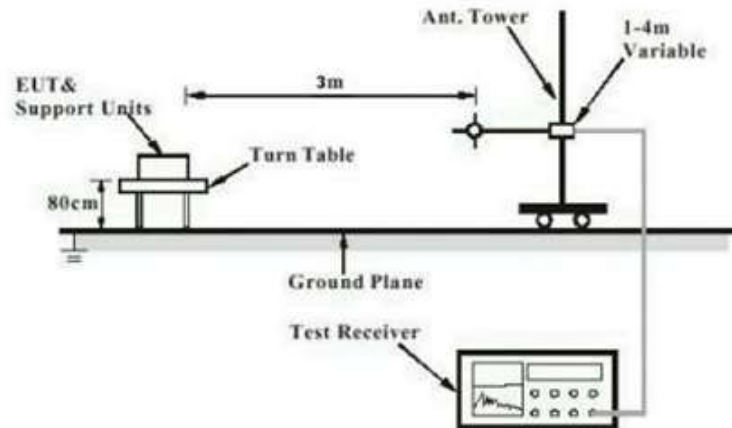


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

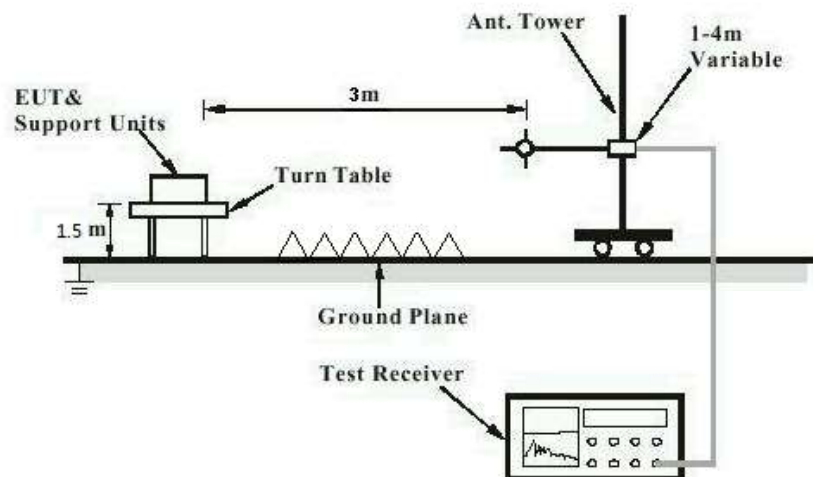


Diagram of Measurement Configuration for Mains Conduction Measurement

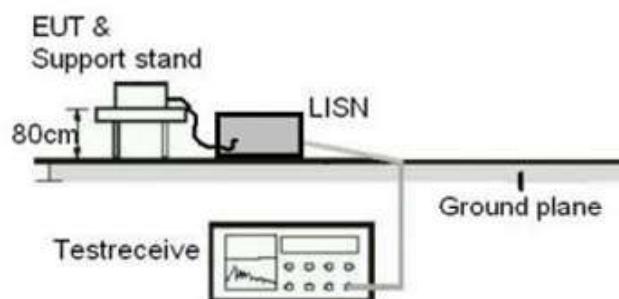
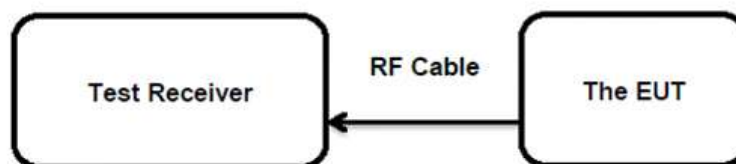


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10, 2020 ANSI C63.10-2020+C63.10a-2024
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-04-25 to 2025-05-21
Input voltage	: Internal battery operated (3.7V DC)
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix B: Test Results

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<i>BLE mode</i>	3

Appendix B.1: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

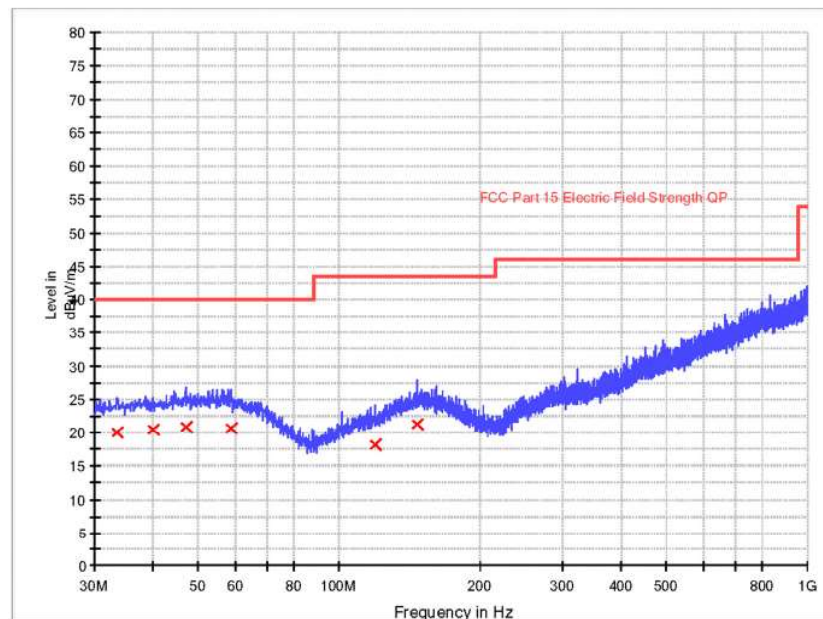
Test Mode	Test Channel (MHz)	Measured Peak Power
		(dBm)
BLE (1M)	2402.0	9.40
	2440.0	9.46
	2480.0	9.42
BLE (2M)	2402.0	9.79
	2440.0	9.88
	2480.0	9.81

BLE mode

Common Information

Manufacturer:	Ultrasonic 8" Chef's Knife
Test Item:	C-200
Identification:	FCC Part 15.247(d)
Test Standard:	Radiated Emission
Test Detail:	TX @ Low Channel
Operation Mode:	22 °C, 46 %, 101 kPa
Climate Condition:	Battery
Test Voltage/ Freq:	170410351
Receipt No:	/
Report No:	Pass
Result:	Test distance is 3m; Horizontal; BLE
Comment:	

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
33.520000	20.1	1000.0	120.000	H	19.6	19.9	40.0
39.960000	20.5	1000.0	120.000	H	20.2	19.5	40.0
46.960000	20.8	1000.0	120.000	H	20.8	19.2	40.0
58.720000	20.7	1000.0	120.000	H	20.4	19.3	40.0
119.480000	18.2	1000.0	120.000	H	18.3	25.3	43.5
146.520000	21.3	1000.0	120.000	H	21.2	22.2	43.5

Tested by: 
20250516

Reviewed by: 
20250521

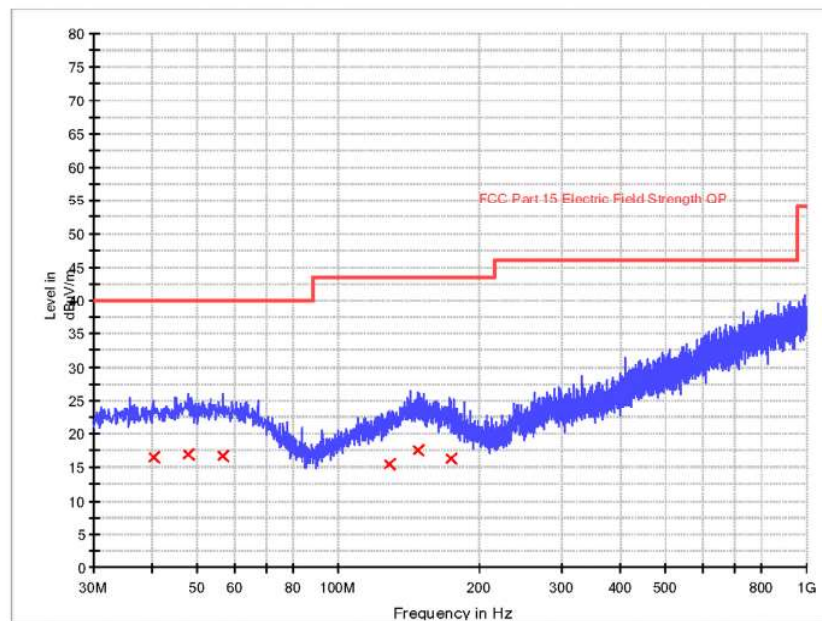
TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ Low Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical; BLE
Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
40.200000	16.5	1000.0	120.000	V	20.2	23.5	40.0
47.840000	16.9	1000.0	120.000	V	20.7	23.1	40.0
47.840000	16.9	1000.0	120.000	V	20.7	23.1	40.0
56.560000	16.7	1000.0	120.000	V	20.6	23.3	40.0
128.440000	15.5	1000.0	120.000	V	19.2	28.0	43.5
147.480000	17.5	1000.0	120.000	V	21.2	26.0	43.5
173.800000	16.3	1000.0	120.000	V	20.3	27.2	43.5

Tested by:  20250516
Reviewed by:  20250521

TUV Rheinland (Guangdong) Ltd.

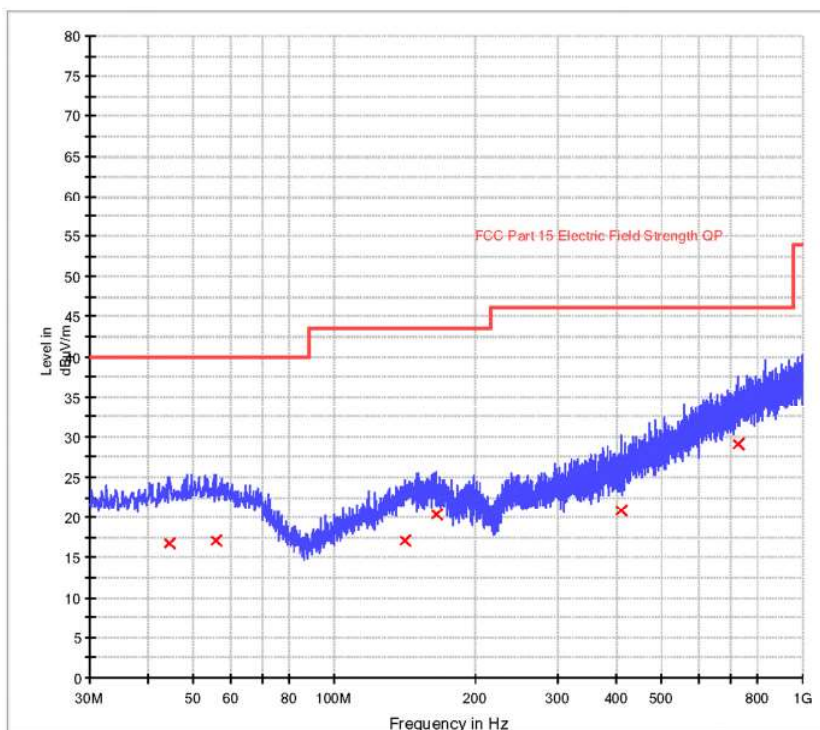
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ Middle Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal; BLE

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
44.440000	16.8	1000.0	120.000	H	20.5	23.2	40.0
55.840000	17.1	1000.0	120.000	H	20.6	22.9	40.0
141.200000	17.1	1000.0	120.000	H	20.8	26.4	43.5
141.200000	17.1	1000.0	120.000	H	20.8	26.4	43.5
165.200000	20.4	1000.0	120.000	H	20.9	23.1	43.5
410.120000	21.0	1000.0	120.000	H	25.0	25.0	46.0
725.600000	29.1	1000.0	120.000	H	32.2	16.9	46.0

Tested by:  Reviewed by: 
20250516 20250521

TUV Rheinland (Guangdong) Ltd.

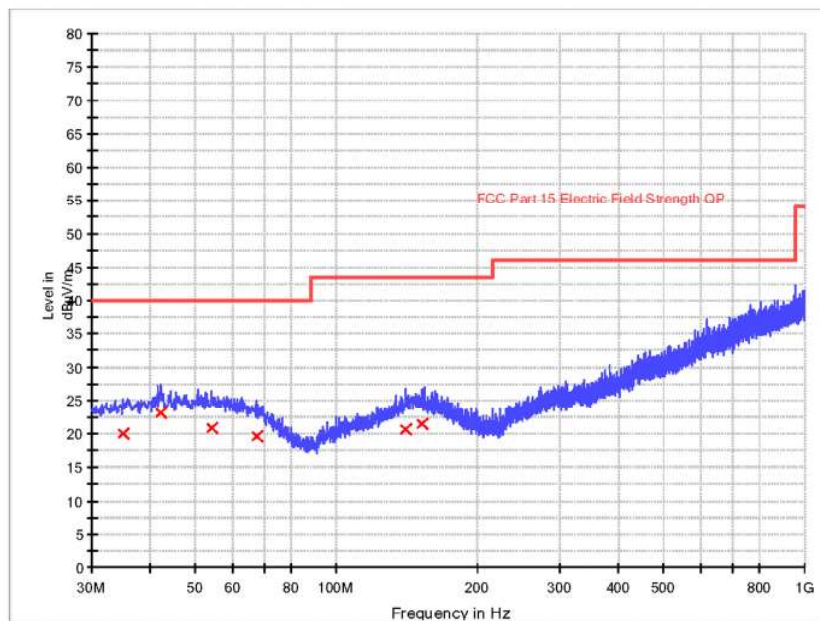
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ Middle Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical; BLE

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
34.960000	20.0	1000.0	120.000	V	19.7	20.0	40.0
42.000000	23.1	1000.0	120.000	V	20.3	16.9	40.0
54.120000	20.8	1000.0	120.000	V	20.7	19.2	40.0
67.600000	19.5	1000.0	120.000	V	19.1	20.5	40.0
140.080000	20.7	1000.0	120.000	V	20.6	22.8	43.5
152.600000	21.5	1000.0	120.000	V	21.3	22.0	43.5

Tested by:  Reviewed by: 
20250516 20250521

TUV Rheinland (Guangdong) Ltd.

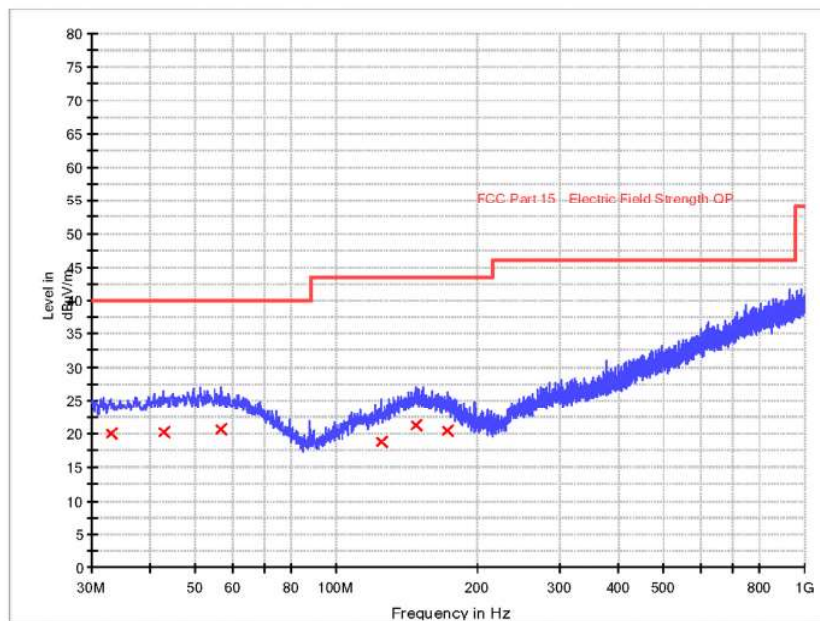
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ High Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal; BLE

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
32.920000	20.1	1000.0	120.000	H	19.5	19.9	40.0
42.600000	20.3	1000.0	120.000	H	20.4	19.7	40.0
56.800000	20.6	1000.0	120.000	H	20.6	19.4	40.0
124.440000	18.7	1000.0	120.000	H	18.8	24.8	43.5
147.360000	21.3	1000.0	120.000	H	21.2	22.2	43.5
172.720000	20.4	1000.0	120.000	H	20.5	23.1	43.5

Tested by: 
20250516

Reviewed by: 
20250521

TUV Rheinland (Guangdong) Ltd.

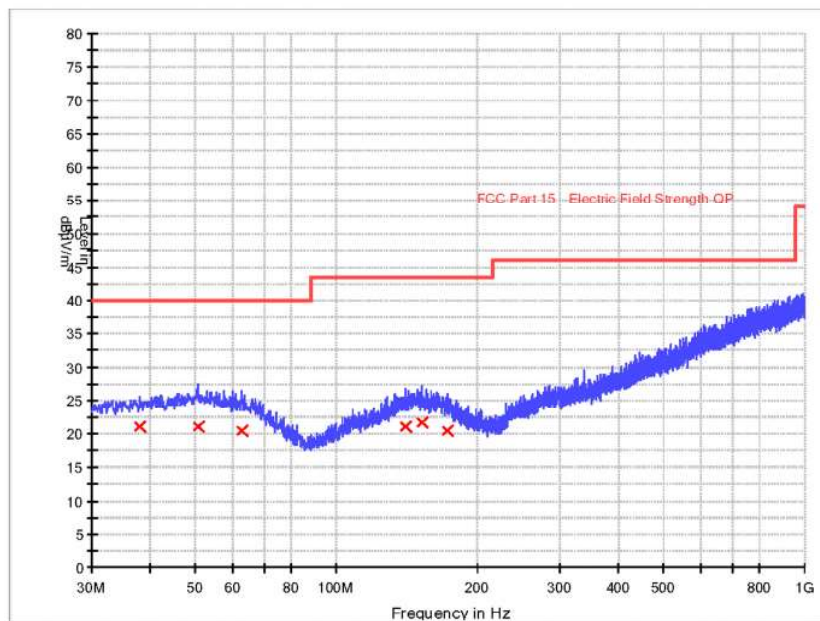
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ High Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical; BLE

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
38.000000	21.1	1000.0	120.000	V	19.8	18.9	40.0
50.600000	21.1	1000.0	120.000	V	20.8	18.9	40.0
62.840000	20.5	1000.0	120.000	V	19.9	19.5	40.0
140.560000	21.0	1000.0	120.000	V	20.7	22.5	43.5
152.080000	21.6	1000.0	120.000	V	21.3	21.9	43.5
172.000000	20.4	1000.0	120.000	V	20.5	23.1	43.5

Tested by:  20250516
Reviewed by:  20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

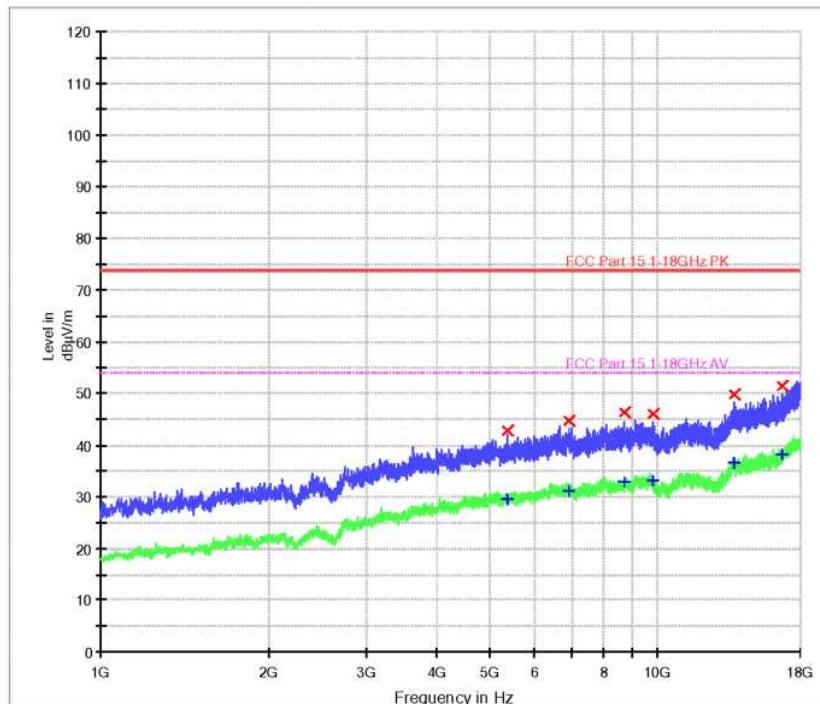
EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ Middle Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal; BLE

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
5356.000000	42.8	1000.0	1000.000	H	-11.1	31.2	74.0
6933.000000	44.6	1000.0	1000.000	H	-9.0	29.4	74.0
8686.000000	46.4	1000.0	1000.000	H	-6.6	27.6	74.0
9785.000000	46.1	1000.0	1000.000	H	-6.4	27.9	74.0
13703.000000	49.9	1000.0	1000.000	H	-2.9	24.2	74.0
16706.000000	51.5	1000.0	1000.000	H	0.7	22.5	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
5356.000000	29.6	1000.0	1000.000	H	-11.1	24.4	54.0
6933.000000	31.1	1000.0	1000.000	H	-9.0	22.9	54.0
8686.000000	33.0	1000.0	1000.000	H	-6.6	21.1	54.0
9785.000000	33.2	1000.0	1000.000	H	-6.4	20.9	54.0
13703.000000	36.7	1000.0	1000.000	H	-2.9	17.3	54.0
16706.000000	38.3	1000.0	1000.000	H	0.7	15.7	54.0

Tested by:  Reviewed by: 
20250516 20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

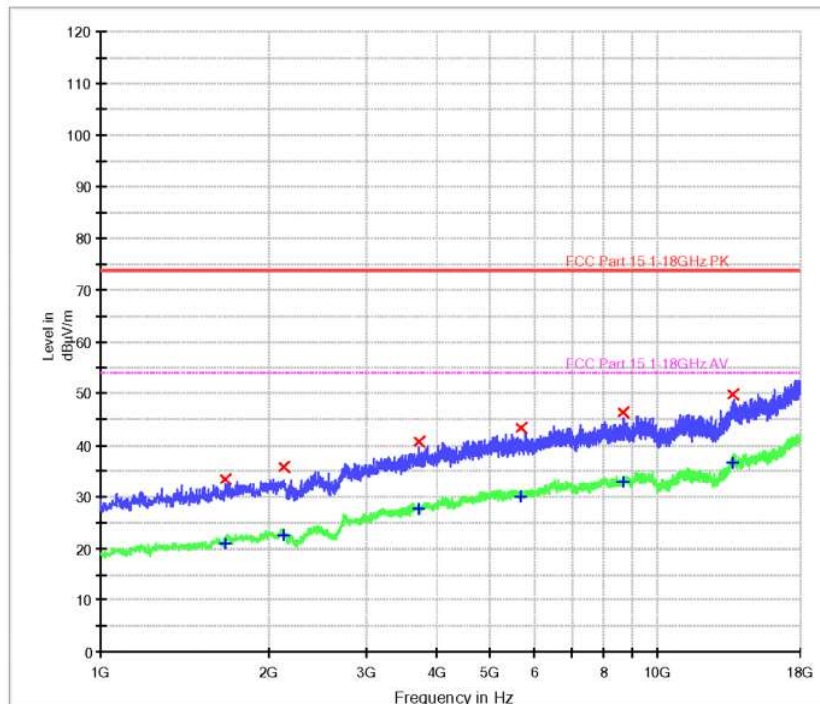
EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ Middle Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical; BLE

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1676.000000	33.6	1000.0	1000.000	V	-22.4	40.4	74.0
2130.000000	35.9	1000.0	1000.000	V	-20.7	38.1	74.0
3724.000000	40.6	1000.0	1000.000	V	-14.7	33.4	74.0
5690.000000	43.3	1000.0	1000.000	V	-10.7	30.7	74.0
8661.000000	46.4	1000.0	1000.000	V	-6.7	27.6	74.0
13650.000000	49.8	1000.0	1000.000	V	-2.8	24.2	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1676.000000	20.9	1000.0	1000.000	V	-22.4	33.1	54.0
2130.000000	22.5	1000.0	1000.000	V	-20.7	31.5	54.0
3724.000000	27.6	1000.0	1000.000	V	-14.7	26.4	54.0
5690.000000	30.1	1000.0	1000.000	V	-10.7	23.9	54.0
8661.000000	32.9	1000.0	1000.000	V	-6.7	21.1	54.0
13650.000000	36.6	1000.0	1000.000	V	-2.8	17.4	54.0

Tested by: 
20250516

Reviewed by: 
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

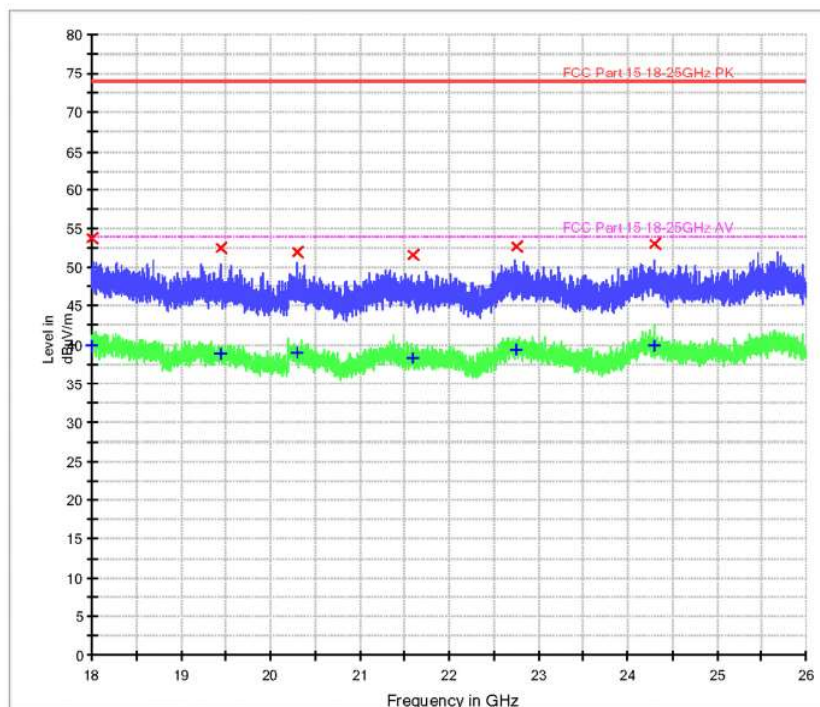
EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ Middle Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal;BLE

Subrange 1	
Frequency Range:	18-25GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
18000.000000	53.8	1000.0	1000.000	H	6.6	20.3	74.0
19437.000000	52.5	1000.0	1000.000	H	6.4	21.5	74.0
20306.000000	52.1	1000.0	1000.000	H	6.1	22.0	74.0
21590.000000	51.6	1000.0	1000.000	H	5.8	22.4	74.0
22763.000000	52.7	1000.0	1000.000	H	6.1	21.3	74.0
24309.000000	53.1	1000.0	1000.000	H	5.9	20.9	74.0

Limit and Margin AV

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
18000.000000	53.8	1000.0	1000.000	H	6.6	14.0	54.0
19437.000000	52.5	1000.0	1000.000	H	6.4	15.2	54.0
20306.000000	52.1	1000.0	1000.000	H	6.1	14.9	54.0
21590.000000	51.6	1000.0	1000.000	H	5.8	15.7	54.0
22763.000000	52.7	1000.0	1000.000	H	6.1	14.6	54.0
24309.000000	53.1	1000.0	1000.000	H	5.9	14.2	54.0

Tested by:  20250516
Reviewed by:  20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

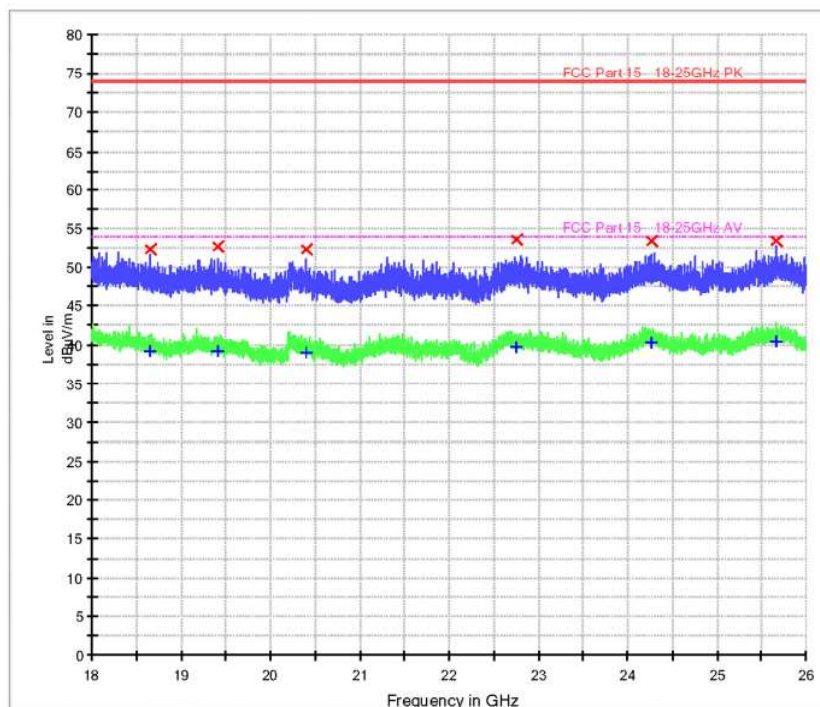
EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	Ultrasonic 8" Chef's Knife
Identification:	C-200
Test Standard:	FCC Part 15.247(d)
Test Detail:	Radiated Emission
Operation Mode:	TX @ Middle Channel
Climate Condition:	22 °C, 46 %, 101 kPa
Test Voltage/ Freq:	Battery
Receipt No:	170410351
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical; BLE

Subrange 1	
Frequency Range:	18-25GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Jack Huang*
20250516

Reviewed by: *Jacky Chen*
20250521

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
18653.000000	52.4	1000.0	1000.000	V	6.6	21.6	74.0
19420.000000	52.8	1000.0	1000.000	V	6.4	21.3	74.0
20400.000000	52.3	1000.0	1000.000	V	6.1	21.7	74.0
22764.000000	53.6	1000.0	1000.000	V	6.1	20.4	74.0
24262.000000	53.4	1000.0	1000.000	V	5.8	20.6	74.0
25663.000000	53.4	1000.0	1000.000	V	6.0	20.6	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
18653.000000	39.2	1000.0	1000.000	V	6.6	14.8	54.0
19420.000000	39.2	1000.0	1000.000	V	6.4	14.8	54.0
20400.000000	39.0	1000.0	1000.000	V	6.1	15.0	54.0
22764.000000	39.7	1000.0	1000.000	V	6.1	14.3	54.0
24262.000000	40.3	1000.0	1000.000	V	5.8	13.7	54.0
25663.000000	40.4	1000.0	1000.000	V	6.0	13.6	54.0

Tested by:  20250516
Reviewed by:  20250521