Test Repot No. *Prüfbericht-Nr.:*	**US26XO0P.003**	**Order No.** Auftrags-Nr.:	P02067768 234233807	Page **1** of **16** *Seite **1** von **16***
Client Reference No.: *Kunden-Referenz-Nr.:*	2659437	**Order date:** *Auftragsdatum:*	09/18/2025	
Client: *Auftraggeber:*	Bevi, Co 529 Main Street, Suite 2216 Charlestown, MA 02129			
Identification/ Type No.: *Bezeichnung / Typ-Nr*	Bevi Countertop 2.0 / 700-0018, 700-0019			
Order content: *Auftrags-Inhalt:*	RF Exposure Evaluation			
Test specification: *Prüfgrundlage*	47 CFR 1.1307 KDB447498 D04 v.01			
Date of sample receipt: *Wareneingangsdatum:*	12/12/2025			
Test sample No: *Prüfmuster-Nr.:*	DV02			
Testing period: *Prüfzeitraum*	12/15/2025 - 2/6/2026			
Place of testing: *Ort der Prüfung:*	TUV Rheinland of North America Inc. 400 Beaver Brook Road Boxbrough, MA 01719			See Appendix Test Set-up
Testing laboratory: *Prüflaboratorium*	TUV Rheinland of North America, Inc.			
Test result*: *Prüfergebnis*:*	Pass			

compiled by: *geprüft von:*	Dieter Baldamus Paasche	**Authorized by:** *genehmigt von:*	Nathaniel Beyer
Date: 05/26/2026 *Datum:*		**Issue Date:** 05/26/2026 *Ausstellungsdatum:*	
Position / Stellung:	Expert	**Position** / Stellung:	Expert
Others / *Sonstiges*:	NA		

Condition of the test item at delivery:
Zustand des Prüfgegenstandes bei Anlieferung:

* 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
** Legende:*	*P(ass) = entspricht o.g. Prüfgrundlage(n)*	*F(ail) = entspricht nicht o.g. Prüfgrundlage(n)*	*N/A = nicht anwendbar*	*N/T = nicht getestet*

Remarks
Anmerkungen

1	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. *Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibierungsprogramms 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.*
2	As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. *Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.*
3	Test clauses with remark of * are subcontracted to qualified subcontractors and descripted under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report. *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.*
4	Electromagnetic Compatibility Test Report. The above product was found to be Compliant to the above test standard(s).

Product description
Produktbeschreibung

1	**Product details:** *Produktdetails:*	The CT 2.0 is a beverage dispenser that's installed in a kitchen countertop. The cabinet below houses the chiller portion of the device which filters incoming water from the supply and serves as the source of still and sparkling water for the dispenser (or head unit) above. The cabinet also houses up to eight flavor BIBS to mix with dispensed water upon exit from the CT 2.0 nozzle. The head unit contains a 13.56MHz RFID reader which is used to scan the flavor BIBS during servicing. The intended operational modes is: RFID read,
2	**Dimensions / Weight:** Maße / Gewicht:	10" x 11" x 18", 12 lbs Main head unit, no chiller included
3	**Operating elements:** *Bedienelemente:*	120V/60Hz 7A (Compact Chiller supply). 24VDC Heat Unit Supply
4	**Equipment / Accessories:** *Ausstattung / Zubehör:*	N/A
5	**Used materials:** *Verwendete Materialien:*	Water
6	**Other:** *Sonstiges:*	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
7	**Test sample obtaining:** *Prüfmusterbereitstellung:*	☒ Sending by customer ☐ Sampling by TÜV Rheinland Group ☐ others:

Revisions

Revision No.	Date	Reason for Change	Author
US26XO0P.001	04/29/2026	Original Report	Dieter Baldamus Paasche
US26XO0P.002	05/07/2026	Address correction, size update, calculation update	Dieter Baldamus Paasche
US26XO0P.003	05/26/2026	Updated phone number	Dieter Baldamus Paasche

Note: Latest revision report will replace all previous reports.

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1 Executive Summary

1.1 Scope

This report is intended to document the status of conformance with the requirements of 47 CFR §1.1307 based on the results of evaluation performed on 12/15/2025 to 2/6/2026 on 700-0018, 700-0019 manufactured by Bevi, Co

This report only applies to the specific sample evaluated under the stated conditions. It is the responsibility of the manufacturer to assure that additional production units of this model are manufactured with identical or EMI equivalent electrical and mechanical components. This report is further intended to document changes and modifications to the EUT throughout its life cycle. All documentation will be included as a supplement.

1.2 Purpose

This report will evaluate compliance of RF exposure to the human body of 700-0018, 700-0019 according to 47 CFR §1.1307. Transmitters and/or configurations that are not exempt from routine evaluation are assessed according to acceptable FCC measurement procedures.

1.3 Summary of Test Results

Table 1: Summary of Test Results

Regulation	Test/Evaluation Method	Worst Case	Result
47 CFR 1.1307	47 CFR 1.1307(b)(3)(i) KDB 447498 D4 v.01	< 1mW @ 5 mm	**Complies**
Note: None.			

1.4 Special Accessories

None

1.5 Equipment Modifications

None.

2 Laboratory Information

2.1 Accreditations & Endorsements

2.1.1 US Federal Communications Commission, US1388

TUV Rheinland of North America EMC test facilities located at 400 Beaver Brook Road, Boxborough, MA, 01719 U.S.A. are recognized by the Commission for performing testing services for the general public on a fee basis. These laboratory test facilities have been fully described in reports submitted to and accepted by the FCC (Registration No. US1388). The laboratory Scopes of Accreditation include Title 47 CFR 15, 18 and 90. The accreditations are updated every three years.

2.1.2 NIST / A2LA, Testing Cert #3331.06

TUV Rheinland of North America EMC test facilities are accredited by the American Association for Laboratory Accreditation (A2LA). The laboratories have been assessed and accredited by A2LA in accordance with ISO Standard 17025:2017 (Testing Certificate #3331.06). The Scope of Laboratory Accreditation includes emission and immunity testing. The accreditations are updated annually.

2.1.3 Canada – Innovation, Science and Economic Development (ISED), 34082

Innovation, Science and Economic Development Canada | Innovation, Sciences et Développement économique Canada

The 10-meter Semi-Anechoic Chamber, Registration No. 34082, has been accepted by ISED to perform testing to 3 and 10 meters based on the test procedures described in ANSI C63.4:2014 and ANSI C63.10:2020

2.1.4 Japan – VCCI

The Voluntary Control Council for Interference by Information Technology Equipment (VCCI) is a group that consists of Information Technology Equipment (ITE) manufacturers and EMC test laboratories. The purpose of the Council is to take voluntary control measures against electromagnetic interference from Information Technology Equipment, and thereby contribute to the development of a socially beneficial and responsible state of affairs in the realm of Information Technology Equipment in Japan. TUV Rheinland of North America EMC test facilities located at 400 Beaver Brook Road, Boxborough, MA, 01719 U.S.A, have been assessed and approved in accordance with the Regulations for Voluntary Control Measures.

VCCI Registration No.: A-0424

2.1.5 Acceptance by Mutual Recognition Arrangement

The United States has an established agreement with specific countries under the Asia Pacific Laboratory Accreditation Corporation (APLAC) Mutual Recognition Arrangement. Under this agreement, all TÜV Rheinland of North America, Inc. at 400 Beaver Brook Road, Boxborough, MA, 01719 U.S.A test results and test reports within the scope of the laboratory NIST / A2LA accreditation will be accepted by each member country.

2.1.6 BSMI

Registration No.: SL2-IN-E-1180R. The BSMI accreditation was obtained by NIST MRA with the BSMI

2.1.7 Korea

(Designation No.: US0240). Recognized by National Radio Research Agency (RRA) as an accredited Conformity Assessment Body (CAB) under the terms for Korea Phase I of the APEC TEL.

2.2 Test Facilities

Test facilities are located at 400 Beaver Brook Road, Boxborough, MA, 01719 U.S.A

2.3 Measurement Uncertainty

Two types of measurement uncertainty are expressed in this report, per *ISO Guide To The Expression Of Uncertainty In Measurement*, 1st Edition, 1995.

The Combined Standard Uncertainty is the standard uncertainty of the result of a measurement when that result is obtained from the values of a number of other quantities; it is equal to the positive square root of the sum of the variances or co-variances of these other quantities, weighted according to how the measurement result varies with changes in these quantities. The term *standard uncertainty* is the result of a measurement expressed as a standard deviation.

The Expanded Uncertainty defines an interval about the result of a measurement that may be expected to encompass a large fraction of the distribution of values that could reasonably be attributed to the measurement and the fraction may be viewed as the coverage probability or level of confidence of the interval.

2.1 Calibration Traceability

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Measurement method complies with ANSI/NCSL Z540-1-1994 and ISO Standard 17025:2017. Equipment calibration records are kept on file at the test facility.

3 Equipment Under Test

3.1 Introduction

This section provides a description of the Equipment Under Test (EUT), configurations, operating conditions, and manufacturer details. It is an overview of information provided by the manufacturer so that the test laboratory may perform the requested testing.

3.2 Customer

Table 2: Customer Information

Client	Bevi, Co
Address 1	529 Main Street, Suite 2216 Charlestown, MA 02129
Contact Person	Evan Gould
Telephone	+1 (617) 765-4087
Fax	evan.gould@bevi.co

Table 3: Technical Contact Information

Contact Person	Evan Gould
Telephone	+1 (617) 765-4087
E-Mail	evan.gould@bevi.co

3.3 Equipment Under Test Specifications

Table 4: EUT Specifications

EUT Specifications	
Exposure Type	☒ General Population / Uncontrolled ☐ Occupational / Controlled
Dimensions	10" x 11" x 18", 12 lbs Main head unit, no chiller included
Power Input	120V/60Hz 7A (Compact Chiller supply). 24VDC Heat Unit Supply
Operating Temperature Range:	10°C – 32°C, 50% RH
Multiple Feeds:	☐ Yes ☒ No
Hardware Version/Model	700-0018, 700-0019
Firmware Version	0.9
RF Software Version	1.16.0.0
Product Marketing Name	Bevi Countertop 2.0
Operating Mode	Near Field Communication (NFC)
Transmitter Frequency Band	13.56 MHz (NFC)
Antenna Manufacturer	Taoglass
Antenna Type	NFC Flex Antenna (FXR Taoglass 3030.B)
Antenna Gain	0.0
Modulation Type	ASK
Data Rate	NA
Supported Bandwidths	NA
TX/RX Chain (s)	1
Directional Gain Type	☐ Uncorrelated ☐ Beam-Forming ☒ Other describe: N/A
Type of Equipment	☐ Table Top ☐ Wall-mount ☒ Floor standing cabinet ☐ Other: Indoor/Residential
Note: 1. All EUT specifications are provided by the manufacturer or the TUV direct customer. 2. Information supplied by the customer and can affect the validity of results.	

Table 5: EUT Test Samples

Equipment	Manufacturer	Model	Serial	Used for
Countertop 2.0	Bevi, Co	700-0018, 700-7019	DV02	Radiated and conducted testing
Note: None.				

Table 6: Power Settting/Specifcation

Freq. (MHz)	NFC	--	--	--	--	--	--	--
13.56	See Note	--	--	--	--	--	--	--
Note: Power set by Manufacturer.								

Table 7: General Product Infromation

Dimensions	Length:	10”	Width	11”	Height:	18”
Weight	12 lbs		**Fork-lift Needed:**		No	
Note: Main head unit, no chiller included						

Table 8: Electrical Power Type

Name	Type	Voltage		Frequency (Hz)	Current (A)
		Min	Max		
Compact chiller supply	AC	120	120	60Hz	7A
Head unit supply	DC	24	24	0Hz	NA
Note: None					

Table 9: EUT Interface/Port Specifications

EUT Port	Connect To	Location	Length	Shielded/ Unshielded
AC Mains	120VAC	Base of chiller unit	6’	Unshielded
Ethernet (optional)	Network hub	Base of head unit	unspecified	Unshielded
Note: None				

4 Product Information

4.1 Product Description

The CT 2.0 is a beverage dispenser that's installed in a kitchen countertop. The cabinet below houses the chiller portion of the device which filters incoming water from the supply and serves as the source of still and sparkling water for the dispenser (or head unit) above. The cabinet also houses up to eight flavor BIBS to mix with dispensed water upon exit from the CT 2.0 nozzle. The head unit contains a 13.56MHz RFID reader which is used to scan the flavor BIBS during servicing.

4.2 Equipment Configuration

A description of the equipment configuration is given in the Test Plan Section. The EUT was tested as called for in the test standard and was configured and operated in a manner consistent with its intended use. The placement of the EUT system components was guided by the test standard and selected to represent typical installation conditions.

In the case of an EUT that can operate in more than one configuration, preliminary testing was performed to determine the configuration that produced maximum radiation.

The final configuration was selected to produce the worst-case radiation for emissions testing.

4.3 Operating Mode

A description of the operation mode is given in the Test Plan Section. In the case of an EUT that can operate in more than one state, preliminary testing was performed to determine the operating mode that produced maximum radiation.

5 RF Exposure Evaluation

The evaluation was performed in accordance with 47 CFR 1.1307 and FCC KDB 447498 D04 v. 01 to assess if the EUT meets the exemption criteria allowed per 47 CFR 1.1307.

5.1 RF Exposure Exemption Assessment

RF exposure evaluation is exempt when the device operates under the prescribed values listed in §1.1307(b)(3)(i).

From §1.1307(b)(3)(i)(A), a product is exempt from routine RF exposure evaluation, when the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

Or

From §1.1307(b)(3)(i)(B), A single RF source is exempt if the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th}(mW) = \begin{cases} ERP_{20cm}\left(\frac{d}{20cm}\right)^{x}, & d \leq 20 \text{ cm} \\ ERP_{20cm}, & 20cm < d \leq 40\ cm \end{cases}$$

Where:

$$x = -log_{10}\left(\frac{60}{ERP_{20cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz}$$

And:

$$ERP_{20cm}(mW) = \begin{cases} 2040f, & 0.3\ GHz \leq f < 1.5\ GHz \\ 3060, & 1.5\ GHz \leq f \leq 6\ GHz \end{cases}$$

d = the separation distance (cm)

5.2 Results

As originally tested, the EUT was found to be compliant to the requirements of the test standard(s).

5.2.1 RF Exposure Assessment

Table 10: RF Exposure Exemption Evaluation 1.1307(b)(3)(i)(A)

Technology	Band	Frequency (GHz)	Antenna Gain (dBi)	Power (dBm)	Total Power (ERP) (mW)	ERP20 (mW)	d, Seperatoin Distance (cm)	Pth, Limit (mW)	Margin (mW)	Outcome
RF ID	13.56	0.01356	0	-60.4	0	<0	0.05	NA[1]	NA[1]	Complies

Notes:
Note 1: Output power is below 1mW, which meets the exemption of 1.1307(b)(3)(i)(A)
Note 2: Power listed is taken from Report US259YNL002, EIRP (dBm)=Max E(dBµV/m)+20*LOG(d)−104.77 as per KDB 789033 D02 V02
EIRP (dBm) = 24.3+20*LOG(10)-104.77 = -60.4

5.3 Conclusion

The evaluation determined the EUT to be exempt from routine RF Exposure compliance evaluation for single RF sources per 47 CFR 1.1307(b)(3)(i) for all the supported technologies listed in Table 10. The EUT does not support multiple radio technologies which could be used simultaneously.

The EUT was found to be compliant with all applicable exemptions and RF exposure requirements.

--- End of Test Report */ Ende des Prüfberichts* ---