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Report Template Version: V04  
Report Template Revision Date: 2018-07-06

# RF Exposure Evaluation Report

**Report No. :** CQASZ20191101190E-02  
**Applicant:** Yummly Inc.  
**Address of Applicant:** 3101 Park Blvd, Palo Alto California 94306 United States  
**Equipment Under Test (EUT):**  
**Product:** Smart Thermometer  
**Model No.:** YTE000W5KB1  
**Brand Name:** N/A  
**IC:** 25695-YTE000W5KB1  
**Standards:** RSS-102 Issue 5 March 2015  
**Date of Receipt:** 2019-11-21  
**Date of Test:** 2019-11-21 to 2019-11-29  
**Date of Issue:** 2019-11-29  
**Test Result :** **PASS\***

\*In the configuration tested, the EUT complied with the standards specified above

**Tested By:** Tom Chen  
(Tom Chen)  
**Reviewed By:** Aaron Ma  
(Aaron Ma)  
**Approved By:** Jack Ai  
(Jack Ai)



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20191101190E-02	Rev.01	Initial report	2019-11-29

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### 3 General Information

#### 3.1 Client Information

Applicant:	Yummly Inc.
Address of Applicant:	3101 Park Blvd, Palo Alto California 94306 United States
Manufacturer:	Yummly Inc.
Address of Manufacturer:	3101 Park Blvd, Palo Alto California 94306 United States

#### 3.2 General Description of EUT

Product Name:	Smart Thermometer
Model No.:	YTE000W5KB1
Trade Mark:	N/A
Hardware Version:	V1.3
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	RF test(manufacturer declare )
Antenna Type:	Multilayer Chip Antenna
Antenna Gain:	2.0dBi
EUT Power Supply:	lithium battery:DC3.7V, Recharge input:DC5V,25mA

## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to RSS-102 Issue 5 March 2015

##### 2.5.1 Exemption Limits for Routine Evaluation – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1.

#### 4.1.2 Limits

**Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance<sup>4,5</sup>**

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of $\leq 5$ mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
$\leq 300$	71 mW	101 mW	132 mW	162 mW	193 mW
450	52 mW	70 mW	88 mW	106 mW	123 mW
835	17 mW	30 mW	42 mW	55 mW	67 mW
1900	7 mW	10 mW	18 mW	34 mW	60 mW
2450	4 mW	7 mW	15 mW	30 mW	52 mW
3500	2 mW	6 mW	16 mW	32 mW	55 mW
5800	1 mW	6 mW	15 mW	27 mW	41 mW

Frequency (MHz)	Exemption Limits (mW)				
	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of $\geq 50$ mm
$\leq 300$	223 mW	254 mW	284 mW	315 mW	345 mW
450	141 mW	159 mW	177 mW	195 mW	213 mW
835	80 mW	92 mW	105 mW	117 mW	130 mW
1900	99 mW	153 mW	225 mW	316 mW	431 mW
2450	83 mW	123 mW	173 mW	235 mW	309 mW
3500	86 mW	124 mW	170 mW	225 mW	290 mW
5800	56 mW	71 mW	85 mW	97 mW	106 mW

Remark: If the operating frequency of the device is between two frequencies located in Table 1, linear interpolation shall be applied for the applicable separation distance. For test separation distance less than 5 mm, the exemption limits for a separation distance of 5 mm can be applied to determine if a routine evaluation is required.

#### 4.1.3 EUT RF Exposure

##### 1) For BLE

Test mode : GFSK							
Channel	Maximum Peak Conducted Output Power (dBm)	Antenna gain (dBi)	E.i.r.p Power (dBm)	E.i.r.p Tune up tolerance (dBm)	Maximum tune-up E.i.r.p Power		Limit (mW)
					(dBm)	(mW)	
Lowest (2402MHz)	-0.98	2.0	1.02	0.5±1	1.5	1.413	<4.26mW
Middle (2440MHz)	-0.88	2.0	1.12	0.5±1	1.5	1.413	<4.05mW
Highest (2480MHz)	-0.58	2.0	1.42	0.5±1	1.5	1.413	<3.94mW
Conclusion: E.i.r.p. calculation value < limit, SAR is exempted.							

Remark: 1) The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20191101190E-01

2) EIRP= Max Conducted Peak Output Power + Antenna gain