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RF Exposure Evaluation Report

Report No. :	CQASZ20191101191E-02
Applicant:	Yummly Inc.
Address of Applicant:	3101 Park Blvd, Palo Alto California 94306 United States
Equipment Under Test (EUT):	
EUT Name:	Smart Thermometer Dock
Mode No.:	YTE000W5KB2
Brand Name:	N/A
FCC ID:	2AVXTYTE000W5KB2
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
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)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20191101191E-02	Rev.01	Initial report	2019-11-29

2 Contents

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 Dock
Model No.:	YTE000W5KB2
Trade Mark:	N/A
Hardware Version:	V1.3
Software Version:	V1.3
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	RF test(manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	1.0dBi
EUT Power Supply:	DC3V(1.5V x 2 "AAA" Size Batteries)

Note: Only one model number: YTE000W5KB2, but it comes in two appearances, the electrical circuit design, layout, components used and internal wiring were identical.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

For BLE

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.79	-1.5±1	-0.5	0.891
Middle(2440MHz)	-0.63	-1.5±1	-0.5	0.891
Highest(2480MHz)	-0.32	-1.0±1	0	1.000

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-0.79	-1.5±1	-0.5	0.891	0.276	3.0
Middle (2440MHz)	-0.63	-1.5±1	-0.5	0.891	0.278	
Highest (2480MHz)	-0.32	-1.0±1	0	1.000	0.315	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20191101191E-01.