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TEST REPORT

Report No. :	CQASZ20250601505E-05
Applicant:	Ultimea Technology (Shenzhen) Limited
Address of Applicant:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China
Equipment Under Test (EUT):	
EUT Name:	Party Speaker
Model No.:	UP1D0, UP1D1, UP1D2, UP1D3, UP1D4
Test Model No.:	UP1D0
Brand Name:	ULTIMEA
FCC ID:	2A9OO-UP1D0T
Standards:	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2025-06-30
Date of Test:	2025-06-30 to 2025-07-28
Date of Issue:	2025-9-10
Test Result :	**PASS**

Tested By: lewis zhou

(Lewis Zhou)

Reviewed By: Timo Lei

(Timo Lei)

Approved By:

(Jack Ai)

1. Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250601505E-05	Rev.01	Initial report	2025-9-10

2. Contents

3. Client Information

Applicant:	Ultimea Technology (Shenzhen) Limited
Address of Applicant:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China
Manufacturer:	Ultimea Technology (Shenzhen) Limited
Address of Manufacturer:	20th Floor, Building 4, Tianan Cloud Park, Bantian St., Longgang District, Shenzhen, China
Factory:	Zhong Shan City Richsound Electronic Industrial Ltd
Address of Factory:	No 16, East ShaGang Road, GangKou Town, ZhongShan City, GuangDong, 528447, China

4. General Description of EUT

Product Name:	Party Speaker
Model No.:	UP1D0, UP1D1, UP1D2, UP1D3, UP1D4
Test Model No.:	UP1D0
Trade Mark:	ULTIMEA
Software Version:	V20
Hardware Version:	V2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	FPC antenna
Antenna Gain:	3.64dBi
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Power Supply:	Power supply AC 120V
	Li-ion battery DC 10.95V 5200mAh, Charge by DC 120V for AC

5. RF Exposure Evaluation

RF Exposure Compliance Requirement

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.

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 calculation17

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

EUT RF Exposure

1) For BT(1#)

Measurement Data

Worst case: 8DPSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.03	-1.0±1	0	1.000
Middle(2441MHz)	-0.76	-0.5±1	0.5	1.122
Highest(2480MHz)	-2.04	-2.0±1	-1	0.794

Worst case: 8DPSK			
Channel	Maximum tuneup Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.000	0.310	3.0
Middle (2441MHz)	1.122	0.351	
Highest (2480MHz)	0.794	0.250	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250601505E-01

2) For BLE(1#)

Measurement Data

Worst case: GFSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-1.22	-1.0±1	0	1.000
Middle(2440MHz)	-0.99	-1.0±1	0	1.000
Highest(2480MHz)	-2.13	-2.0±1	-1.0	0.794

Worst case: GFSK			
Channel	Maximum tuneup Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.000	0.310	3.0
Middle (2440MHz)	1.000	0.312	
Highest (2480MHz)	0.794	0.250	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250601505E-02

3) For BT(2#)

Measurement Data

Worst case: 8DPSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.58	1.5±1	2.5	1.778
Middle(2441MHz)	0.43	0.5±1	1.5	1.413
Highest(2480MHz)	-0.99	-1±1	0	1.000

Worst case: 8DPSK			
Channel	Maximum tuneup Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.778	0.551	3.0
Middle (2441MHz)	1.413	0.441	
Highest (2480MHz)	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.: CQASZ20250601505E-03

4) For BLE(2#)

Measurement Data

Worst case: GFSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.10	1.0±1	2.0	1.585
Middle(2440MHz)	-0.13	0±1	1	1.259
Highest(2480MHz)	-1.79	-1.5±1	-0.5	0.891

Worst case: GFSK			
Channel	Maximum tuneup Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.585	0.491	3.0
Middle (2440MHz)	1.259	0.393	
Highest (2480MHz)	0.891	0.281	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250601505E-04

Simultaneous transmission:

SAR Exclusion Threshold=

[(max. power of channel, including tune-up tolerance, mW)/

(min. test separation distance, mm)] ·[√f(GHz)]

BLE+2.4GWIFI:

=[(1.122mW/5mm) ·√2.441GHz]/1.6W/kg+[(1.00mW/5mm) ·√2.44GHz]/1.6W/kg

+[(1.778mW/5mm) ·√2.402GHz]/1.6W/kg+[(1.585mW/5mm) ·√2.402GHz]/1.6W/kg

=0.623/1.6+0.688/1.6+0.623/1.6+0.688/1.6

=0.819≤1