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RF Exposure Evaluation Report

Report No. : CQASZ20190800677E-02
Applicant: Jiangsu Cooostar Technology Co.,Ltd
Address of Applicant: Building 8, No 99, Taihu Road, Tinghu District, Yancheng, Jiangsu, China
Equipment Under Test (EUT):
Product: MOCA Portable bluetooth speaker
Model No.: PURIDEA i8
Brand Name: COOOSS,PURIDEA,COOODI
FCC ID: 2AUP3-PURIDEAI8
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2019-08-05
Date of Test: 2019-08-05 to 2019-08-08
Date of Issue: 2019-08-08
Test Result : PASS*

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

Tested By:

Tom Chen.

(Tom chen)

Reviewed By:

Sheek, Luo

(Sheek Luo)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190800677E-02	Rev.01	Initial report	2019-08-08

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3 General Information

3.1 Client Information

Applicant:	Jiangsu Cooostar Technology Co.,Ltd
Address of Applicant:	Building 8, No 99, Taihu Road, Tinghu District, Yancheng, Jiangsu, China
Manufacturer:	Jiangsu Cooostar Technology Co.,Ltd
Address of Manufacturer:	Building 8, No 99, Taihu Road, Tinghu District, Yancheng, Jiangsu, China

3.2 General Description of EUT

Product Name:	MOCA Portable bluetooth speaker
Model No.:	PURIDEA i8
Trade Mark:	COOSS,PURIDEA,COODI
Hardware Version:	SST185_V06
Software Version:	hxd2815_MOCA_20190612
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	BT FCC Tool V1.02 (manufacturer declare)
Antenna Type:	FPC antenna
Antenna Gain:	0.5dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

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:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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

4.1.3 EUT RF Exposure

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.220	-0.5±1	0.5	1.122
Middle(2441MHz)	-0.180	-1±1	0	1.000
Highest(2480MHz)	0.930	0±1	1.0	1.259
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.510	2.0±1	3.0	1.995
Middle(2441MHz)	2.400	1.5±1	2.5	1.778
Highest(2480MHz)	3.970	3.0±1	4.0	2.512
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.950	2.0±1	3.0	1.995
Middle(2441MHz)	2.870	2.0±1	3.0	1.995
Highest(2480MHz)	3.980	3.0±1	4.0	2.512

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	2.950	2.0±1	3.0	1.995	0.618	3.0
Middle (2441MHz)	2.870	2.0±1	3.0	1.995	0.623	
Highest (2480MHz)	3.980	3.0±1	4.0	2.512	0.791	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190800677E-01