

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Report Reference No....... MTWG22020071-H FCC ID...... : 2A2WN-OR1091BS

Compiled by

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Date of issue...... February 21,2022

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... NINGBO SC-STARMAX IMP. & EXP. CO., LTD.

Road Ningbo China

Test specification/ Standard: 47 CFR Part 1.1307

47 CFR Part 2.1093

TRF Originator...... Shenzhen Most Technology Service Co., Ltd.

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Test item description COMBO Wireless Bluetooth Speaker

Trade Mark N/A

Model/Type reference...... OR1091BS

Listed Models N/A

Modulation Type GFSK, $\pi/4DQPSK$, 8DPSK

Operation Frequency...... From 2402MHz to 2480MHz

Hardware Version..... V1.1

Software Version V017

Rating DC3.7V by Battery

DC 5V(by USB)

Result..... PASS

Report No.: MTWG22020071-H Page 2 of 6

TEST REPORT

Equipment under Test : COMBO Wireless Bluetooth Speaker

Model /Type : OR1091BS

Listed Models : N/A

Remark N/A.

Applicant : NINGBO SC-STARMAX IMP. & EXP. CO.,LTD.

Address : 15F, MU Group, Building B16 (West Area), No.2560 Yongjiang

Avenue, Yinzhou District, Ningbo, China. 315048

Manufacturer : NINGBO SC-STARMAX IMP. & EXP. CO.,LTD.

Address : 15F, MU Group, Building B16 (West Area), No.2560 Yongjiang

Avenue, Yinzhou District, Ningbo, China. 315048

The test report merely corresponds to the test sample.

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Report No.: MTWG22020071-H Page 3 of 6

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022-02-21	Initial Issue	Alisa Luo

Report No.: MTWG22020071-H Page 4 of 6

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 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.

2.1.2 Limits

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 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 \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

Report No.: MTWG22020071-H Page 5 of 6

2.1.3 EUT RF Exposure

Measurement Data BLE

GFSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-1.716	-1.716±1	-0.716	0.848	
Middle(2440MHz)	-1.529	-1.529±1	-0.529	0.885	
Highest(2480MHz)	-1.985	-1.985±1	-0.985	0.797	

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximun Pov (dBm)	-	Calculated value	Exclusion threshold	SAR Test Exclusion
Highest(2440MHz)	-1.529	-0.529	0.885	0.276	3.0	Yes

EDR

GFSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-1.868	-1.868±1	-0.868	0.819	
Middle(2441MHz)	-1.749	-1.749±1	-0.749	0.842	
Highest(2480MHz)	-2.363	-2.363±1	-1.363	0.731	

π /4DQPSK					
l est channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-1.222	-1.222±1	-0.222	0.950	
Middle(2441MHz)	-1.120	-1.120±1	-0.120	0.973	
Highest(2480MHz)	-1.731	-1.731±1	-0.731	0.845	

8DPSK					
I lest channel I	Peak Output Power	Tune up tolerance	Maximum tu	ne-up Power	
	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2402MHz)	-0.915	-0.915±1	0.085	1.020	
Middle(2441MHz)	-0.824	-0.824±1	0.176	1.041	
Highest(2480MHz)	-1.446	-1.446±1	-0.446	0.902	

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximun Pov (dBm)	-	Calculated value	Exclusion threshold	SAR Test Exclusion
Highest(2441MHz)	-0.824	0.176	1.041	0.325	3.0	Yes

THE END OF	REPORT
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