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..... :	**MTEB25030242-H**	
FCC ID..... :	**2APU9-HRD-907**	
Compiled by (position+printed name+signature).. :	File administrators Alisa Luo	
Supervised by (position+printed name+signature).. :	Test Engineer Sunny Deng	
Approved by (position+printed name+signature).. :	Manager Yvette Zhou	
Date of issue.....:	**Mar.20,2025**	
Representative Laboratory Name. :	**Shenzhen Most Technology Service Co., Ltd.**	
Address..... :	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.	
Applicant's name.....:	**Shenzhen Hanrongda Electronic Co., Ltd.**	
Address..... :	No.21, LiYuanxia,Xin Li Road, Ping Hu Town, Long Gang District, Shenzhen	
Test specification/ Standard.....**:**	**47 CFR Part 1.1307** **47 CFR Part 2.1093**	
TRF Originator.....:	Shenzhen Most Technology Service Co., Ltd.	

Test item description.....:	Multi-functional Emergency Radio
Trade Mark.....:	HanRongDa
Model/Type reference..... :	HRD-907
Listed Models ..... :	HRD-907S, ZWS-907, ZWS-907S
Modulation Type..... :	GFSK, π/4DQPSK,8DPSK
Operation Frequency..... :	From 2402MHz to 2480MHz
Hardware Version.....	V1.0
Software Version.....	V1.0
Rating.....:	DC 3.7V by Battery DC 5V by USB Port
Result.....:	PASS

T E S T R E P O R T

Equipment under Test	:	Multi-functional Emergency Radio
Model /Type	:	HRD-907
Listed Models	:	HRD-907S, ZWS-907, ZWS-907S
Remark		Only the model “HRD-907” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name and Appearance is different.
Applicant	:	Shenzhen Hanrongda Electronic Co., Ltd.
Address	:	No.21, LiYuanxia,Xin Li Road, Ping Hu Town, Long Gang District, Shenzhen
Manufacturer	:	Shenzhen Hanrongda Electronic Co., Ltd.
Address	:	No.21, LiYuanxia,Xin Li Road, Ping Hu Town, Long Gang District, Shenzhen

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.03.20	Initial Issue	Alisa Luo

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 ≤ 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

2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	1.560	1.560±1	2.56
Middle(2440MHz)	0.651	0.651±1	1.651
Highest(2480MHz)	0.594	0.594±1	1.594

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Lowest(2402MHz)	1.560	2.56	1.80	0.56	3.0	Yes

EDR

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-0.859	-0.859±1	0.141
Middle(2441MHz)	-0.485	-0.485±1	0.515
Highest(2480MHz)	-0.483	-0.483±1	0.517

π/4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	1.463	1.463±1	2.463
Middle(2441MHz)	1.861	1.861±1	2.861
Highest(2480MHz)	1.855	1.855±1	2.855

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	1.868	1.868±1	2.868
Middle(2441MHz)	2.342	2.342±1	3.342
Highest(2480MHz)	2.215	2.215±1	3.215

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2441MHz)	2.342	3.342	2.16	0.67	3.0	Yes

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