RF EXPOSURE EVALUATION

Report No. : AA0026441(6) Date: 09 Jun 2021

Application No. : LA012360

Applicant : Racefit International Company Ltd
Unit 541, 5/F, Enterprise Place,
No. 5 Science Park West Avenue,
Hong Kong Science Park, Shatin, N.T.

Sample Description : One(1) item of submitted sample stated to be :

Product Descriptin	: Sensor Bluetooth Module (BT 4.2)
Model No.	: RL0262223
Radio Frequency	: 2402 – 2480MHz
Supply voltage	: DC 3.7V Rechargeable battery
No. of submitted sample	: 4

FCC ID : 2ARFZCRW002B1

Date Received : 20 May 2021

Evaluation Period : 20 May 2021 – 28 May 2021

Evaluation Method : 447498 D01 General RF Exposure Guidance v06 - RF Exposure Procedure and Equipment Authorization Policies for Mobile and Portable Devices

Conclusion : The maximum simultaneous power of Bluetooth operation were satisfied RF exposure requirements.

For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____

Wong Lap Pong / Andrew
Deputy Technical Manager

CMA Industrial Development Foundation Limited
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Simultaneous power

Not applicable because only Bluetooth transmitter installed on the device

RF Exposure Evaluation

According to KDB 447498 D01 clause 4.3.1 a), transmission from 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(*max. power of channel, including tune-up tolerance, mW*) / (*min. test separation distance, mm*)] · [√f(GHz)]

Calculation

-Frequency	: 2.480GHz
-Max conducted output power	: -8.3dBm
-Antenna gain	: 1.5 dBi
-Max. power of channel in EIRP , including tune-up tolerance	: -6.8dbm (0.209mW)
-Minimum test separation distances	: <5mm

where
-EIRP = conducted output power (dBm) + antenna gain (dBi).
-f(GHz) is the RF channel transmit frequency in GHz.
-Power and distance are rounded to the nearest mW and mm before calculation.
-The result is rounded to two decimal place for comparison.

Substitute above reading for calculation.
[(mW) / (mm)] x √GHz]

Result = 0.066

Requirements: ≤ 3.00 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

Conclusion

The corresponding SAR test exclusion threshold was satisfied 4.3.1a) requirements. Measurement or numerical simulation is not required.

***** End of Evaluation *****

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