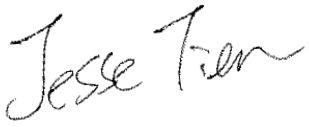
Radio Frequency Exposure

Report Number	MLT2211P15001
Applicant	VAXEE Corporation
Product	Mouse
Sample Received Date	2022/11/29
Sample Tested Date	2023/02/08

Report Prepared By	Jesse Tien
Signature	
Date Prepared	2023/02/09

Report Authorized By	Roger Chen
Signature	
Date Authorized	2023/02/09

EUT INFORMATION

EUT	Mouse
Frequency band (Operating)	2.402~2.480 GHz
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☒ Tx/Rx diversity
Field strength	91.21 dBuV/m @3m
Antenna gain (Max)	1.3 dBi

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TEST RESULT

According to KDB 447498 D01 v06 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

The min. test separation distance (mm) is 5 mm,

eirp = pt*gt = $(E*d)^2/30$

where:
pt = transmitter output power in watts,
gt = numeric gain of the transmitting antenna (unitless),
E = electric field strength in V/m, --- $10^{((dBuV/m)/20)}/10^6$
d = measurement distance in meters (m) --- 3m
So pt = $(E*d)^2/(30*gt)$

Ant. numeric gain, Ant. = 1.3 dBi = 1.35
So pt = $\{[10^{(91.21/20)}/10^6*3]^2/(30*1.35)\}*1000$ = 0.294 mW
So (0.294 mW/5 mm)* $\sqrt{}$ 2.440 GHz = **0.092** <3.0 for 1-g SAR

Therefore, standalone SAR measurements are not required for both head and body.

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