Shenzhen Most Technology Service Co., Ltd.
East A, 1 floor of New Aolin Factory buiding, Langshan Erlu, North District,
Hi-tech Industry Park, Nanshan,Shenzhen,Guangdong,China

RF Exposure Evaluation Report

Report Reference No..... :	**MTEB25080333-H**
FCC ID..... :	**2BRZC-Q1AS**
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.....:	**August 28,2025**
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 Skyler Technology Co., Ltd**
Address..... :	Room 609, Gongle Development Technology Building, Gongle Industrial Zone, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, China
Test specification/ Standard.....**:**	**47 CFR Part 1.1307;47 CFR Part 1.1310** **KDB447498D01 General RF Exposure Guidance v06**
TRF Originator.....:	Shenzhen Most Technology Service Co., Ltd.

Test item description.....:	AI BOX
Trade Mark.....:	N/A
Model/Type reference..... :	Q1AS
Listed Models ..... :	Q1AA,Q1AB,Q1AC,Q1AD,Q1AE,Q1AF
Modulation Type..... :	b: DSSS ; g/n: OFDM GFSK
Operation Frequency..... :	From 2412MHz~2462MHz 2402MHz to 2480MHz
Hardware Version.....	V1.0
Software Version.....	V1.0
Rating.....:	DC 5V
Result.....:	**PASS**

T E S T R E P O R T

Equipment under Test	:	AI BOX
Model /Type	:	Q1AS
Listed Models	:	Q1AA,Q1AB,Q1AC,Q1AD,Q1AE,Q1AF
Remark		Use Q1AS for all tests. Only the model name is different.while other designs are the same.Internal electronic components, circuit layout and wiring are consistent.
Applicant	:	**Shenzhen Skyler Technology Co., Ltd**
Address	:	Room 609, Gongle Development Technology Building, Gongle Industrial Zone, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, China
Manufacturer	:	**Shenzhen Skyler Technology Co., Ltd**
Address	:	Room 609, Gongle Development Technology Building, Gongle Industrial Zone, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, China

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	2025.08.28	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

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f^2)	6
30–300	61.4	0.163	1.0	6
300–1500	.....	.....	f/300	6
1500–100,000	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f^2)	30
30–300	27.5	0.073	0.2	30
300–1500	.....	.....	f/1500	30
1500–100,000	.....	.....	1.0	30

F= Frequency in MHz
Friis Formula
Friis transmission formula: Pd = (Pout*G)/(4* Pi * R^2) Where
Pd = power density in mW/cm2
Pout = output power to antenna in mW
G = gain of antenna in linear scale
Pi = 3.1416

R = distance between observation point and center of the radiator in cm
Pd id the limit of MPE, 1 mW/cm2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.1.3 EUT RF Exposure

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402 MHz)	2.10	2.10±1	3.10
Middle(2440MHz)	1.73	1.73±1	2.73
Highest(2480MHz)	1.34	1.34±1	2.34

BLE

Worst case: GFSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Lowest(2402 MHz)	3.10	2.04	-0.5	0.00040	1.0	Pass

Note: 1) Refer to report MTEB25080333-R for EUT test Max Conducted average Output Power value.
Note: 2) Pd = (Pout*G)/(4* Pi * R2)=(2.04*0.99)/(4*3.1416*20^2)=0.00040

WIFI 2.4G

802.11b			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2412MHz)	13.25	13.25±1	14.25
Middle(2437MHz)	14.70	14.70±1	15.70
Highest(2462MHz)	14.75	14.75±1	15.75

802.11g			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2412MHz)	13.00	13.00±1	14.00
Middle(2437MHz)	13.14	13.14±1	14.14
Highest(2462MHz)	13.51	13.51±1	14.51

802.11n(H20)			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2412MHz)	13.30	13.30±1	14.30
Middle(2437MHz)	13.35	13.35±1	14.35
Highest(2462MHz)	13.68	13.68±1	14.68

WIFI 2.4G

Worst case: 802.11g						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Lowest(2462MHz)	15.75	37.58	-0.5	0.00740	1.0	Pass

Note: 1) Refer to report MTEB25080333-R1 for EUT test Max Conducted average Output Power value.
Note: 2) Pd = (Pout*G)/(4* Pi * R2)=(37.58*0.99)/(4*3.1416*20^2)=0.00740

.....THE END OF REPORT.....