

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation

FCC ID:2BE3V-Q8

1. Client Information

Applicant	: Shenzhen Peicheng Technology Co., Ltd				
Address : 5th Floor, Building 64, Baotian Industrial Zone, Chentian Commu		5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China			
Manufacturer	nufacturer : Shenzhen Peicheng Technology Co., Ltd				
Address : 5th Floor, Building 64, Baotian Industrial Zone, Chentia Xixiang Street, Baoan District, Shenzhen City, China		5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China			

2. General Description of EUT

EUT Name	1	Tablet			
Model(s) No.	7	Q8, Q8S, Q8K			
Model Difference	1	All PCB boards and circuit diagrams are the same, the only difference is that model names.			
Product		Operation Frequency:	Bluetooth 4.2: 2402MHz~2480MHz 2.4G Wi-Fi: 2412MHz~2462MHz		
Description		Antenna Gain:	1.53dBi FPC Antenna		
Power Supply	÷	Input: DC 5V/2A			
Li-ion Polymer Battery		3.8V by 3000mAh Rechargeable Li-ion battery			
Software Version	:	6201_sp7731e_1h10s8637e_1g_PC_Q8_20240507-debug			
Hardware Version	1	SQ8T-SC7731E-W-V1.0 230728-C			

Remark:

- (1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
- (2) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

Note: More test information about the EUT please refer the RF Test Report.



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SAR Test Exclusion Calculations

- 1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.
 - (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
 - 1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR

2. Summary simultaneous transmission for SAR Exclusion

The SAR exemption limits outlined in clause 4.3.2(b) of KDB 447498 have been derived based on an approximate SAR value of 0.4 W/kg using half-wave dipole antennas Footnote 1. As such, when simultaneous transmitter SAR evaluations include transmitters that have been exempt from routine SAR evaluation, the SAR must be estimating based on the ratio between the maximum tune-up tolerance limit of the transmitter that has been exempt and the exemption limit at the specific distance and frequency for that transmitter. This ratio must be multiplied by 0.4 W/kg(2.0 W/kg for controlled use and 1.0 W/kg for limb worn devices) in order to calculate the estimated SAR level.

The estimate SAR value is calculated based the following equation:

(maximum power level including tune-up tolerance for transmitter A / maximum power level of exemption at the same frequency and distance) * 0.4W/kg

- 1) $[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \cdot [\sqrt{f_{(GHz)}/x}]$ W/kg, for test separation distances ≤ 50 mm;
 - where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.
- 2) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distance* is > 50 mm.³⁷

The [Σ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [Σ of MPE ratios] is \leq 1.0.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [Σ of MPE ratios] is ≤ 1.0 .



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3. Calculation:

rest separ	ration: 5mm		1019		1	
	CHILIT		Bluetooth (GFSK)	CONTRACTOR OF THE PARTY OF THE		CHARLE
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	1.469	1±1	2	1.585	0.491	3.0
2.441	1.374	1±1	2	1.585	0.495	3.0
2.480	1.001	1±1	2	1.585	0.499	3.0
67	71:10	В	luetooth (Pi/4-DQPSK)			333
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshole Value
2.402	3.118	3±1	4	2.512	0.779	3.0
2.441	3.215	3±1	4	2.512	0.785	3.0
2.480	2.987	3±1	4	2.512	0.791	3.0
		3015	Bluetooth (8-DPSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshole Value
2.402	3.457	3±1	4	2.512	0.779	3.0
2.441	3.715	4±1	5	3.162	0.988	3.0
2.480	3.472	3±1	4	2.512	0.791	3.0
			Bluetooth LE (1Mbps)	MAD		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshole Value
2.402	0.268	0±1	1	1.259	0.390	3.0
2.440	0.255	0±1	1	1.259	0.393	3.0
2.480	0.144	0±1	1	1.259	0.397	3.0
MARIE			2.4 G Wi-Fi 802.11b		Alle	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshole Value
2.412	7.2	7±1	8	6.310	1.960	3.0
2.437	6.57	7±1	8	6.310	1.970	3.0
2.462	7.24	7±1	8	6.310	1.980	3.0
M. Carrier			2.4 G Wi-Fi 802.11g	J NY	U. San	A C
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshol Value
2.412	7.26	7±1	8	6.310	1.960	3.0
2.437	6.91	7±1	8	6.310	1.970	3.0



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2.4 G Wi-Fi 802.11n20							
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value	
2.412	7.65	8±1	9	7.943	2.467	3.0	
2.437	7.63	8±1	9	7.943	2.480	3.0	
2.462	7.79	8±1	9	7.943	2.493	3.0	

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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