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RF Exposure Evaluation FCC ID: 2A4IC-CP80

1. Client Information

Applicant	:	SHENZHEN ZHENYI INTELLIGENT TECH CO., LTD				
Address		701 Building A, Haohe Zhichuang, No.,10, Fuyuan, 2nd road Zhancheng Community, Fuhai Street, BaoAn District, Shenzhen, Guangdong, China				
Manufacturer		SHENZHEN ZHENYI INTELLIGENT TECH CO., LTD				
Address	3	701 Building A, Haohe Zhichuang, No.,10, Fuyuan, 2nd road Zhancheng Community, Fuhai Street, BaoAn District, Shenzhen, Guangdong, China				

2. General Description of EUT

EUT Name	-	Tablet				
Model(s) No.	1	CP80, CP80S, CP80K, CP81, CP81K, Q2, Q2S, Q2K				
Model Difference		All PCB boards and circuit diagrams are the same, the only difference is that model name.				
Product Description		RF Output Power:	BT: 2.842dBm 802.11b: 2.123dBm 802.11g: 2.034dBm 802.11n (HT20): 2.019dBm 802.11n (HT40): 1.868dBm			
	9	Antenna Gain:	1.64dBi PIFA Antenna			
Power Supply		For adapter: Input: AC 100V-240V Output: DC 5V, 2A DC 3.8V by 4300mAh Rechargeable Li-ion battery				
Software Version	()	CP80_20220805				
Hardware Version	:	R862T-RK3326S-V1.0				

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

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

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The RF Exposure Evaluation for FCC:

SAR Test Exclusion Calculations

FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	10011		310 B12					TOTAL T	· · · · · · · · · · · · · · · · · · ·	2007	
					Dis	stance	(mm)				
		5	10	15	20	25	30	35	40	45	50
$\overline{\mathbf{z}}$	300	39	65	88	110	129	148	166	184	201	217
(MHz)	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
enc	1900	3	12	26	44	66	92	122	157	195	236
Frequency	2450	3	10	_ 22	38	59	83	111	143	179	219
Fr	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169



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Calculation:

Test sepa	ration: 5mm					
V Francisco			Bluetooth (GFSK)			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Tolerance tolerance		Limit P _{th} (mW)	
2.402	2.842	3±1	4	2.512	3	
2.441	2.213	2±1	3	1.995	3	
2.480	1.386	1±1	2	1.585	3	
NUL		Blu	etooth (π/4-DQPSK)	A VIV		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB) Max power of tune up tolerance (dBm)		Max power of tune up tolerance (mW)	Limit P _{th} (mW)	
2.402	2.039	2±1	3	1.995	3	
2.441	1.425	1±1	2	1.585	3	
2.480	2.618	3±1	4	2.512	3	
	1 130	В	Bluetooth (8-DPSK)	MULL		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit P _{th} (mW)	
2.402	2.554	3±1	4	2.512	3	
2.441	1.932	2±1	3	1.995	3	
2.480	1.108	1±1	2	1.585	3	



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THE STATE		MACA	802.11b	0.77	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Limit P _{th} (mW)
2.412	1.859	2±1	3	1.995	3
2.437	1.757	2±1	3	1.995	3
2.462	2.123	2±1	3	1.995	3
		100	802.11g		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Limit P _{th} (mW)
2.412	1.939	2±1	3	1.995	3
2.437	1.745	2±1	3	1.995	3
2.462	2.034	2±1	3	1.995	3
			802.11n(HT20)	107	(All)
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Limit P _{th} (mW)
2.412	1.952	2±1	3	1.995	3
2.437	1.845	2±1	3	1.995	3
2.462	2.019	2±1	3	1.995	3
		MILLER	802.11n(HT40)		
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Limit P _{th} (mW)
2.422	1.738	2±1	3	1.995	3
2.437	1.735	2±1	3	1.995	3
2.452	1.868	2±1	3	1.995	3

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, No SAR is required.

----END OF REPORT----