RF Exposure Evaluation

FCC ID: 2AC8G-UITAS

1. Client Information

Applicant	:	Outform Ltd.
Address	:	Room A103 and A105, Nanshan Medical Instrument Industry Park, No. 1019, Nanhai Avenue Nanshan District, Shenzhen, Guangdong Province, China
Manufacturer	:	Outform Ltd.
Address	:	Room A103 and A105, Nanshan Medical Instrument Industry Park, No. 1019, Nanhai Avenue Nanshan District, Shenzhen, Guangdong Province, China

2. General Description of EUT

EUT Name	:	iDISPLAY TABLET	
Models No.	:	UIT313B-U01, UIT313X-XYY, UIT305X-XYY, UIT413X-XYY, UIT243X-XYY, UIT410X-XYY, UIT407X-XYY, UIM400X-XYY (The 1st X is A-Z represents the software version; The 2nd X is A-Z represents the color, YY is client number from “01” to “50”.)	
Models Difference	:	They are identical in circuitry design, PCB layout, electrical components used, internal wiring and functions, only different on color.	
Product Description	:	Operation Frequency: WiFi: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz Bluetooth 4.0 (BLE): 2402~2480MHz	
		Number of Channel:	Bluetooth 4.0 (BLE): 40 channels WIFI: 802.11b/g/n(HT20):11channels 802.11n(HT40): 7 channels
		Max Peak Output Power:	Bluetooth 4.0 (BLE): -6.092 dBm WIFI: 802.11b: 9.29dBm 802.11g: 9.16dBm 802.11n (HT20): 9.20dBm 802.11n (HT40): 9.07dBm
		Antenna Gain:	1.66 dBi FPC Antenna
		Modulation Type:	BLE: GFSK 802.11b:DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)
Power Supply	:	DC power supplied by AC/DC Adapter. DC Voltage supplied from Li-ion battery.	
Power Rating	:	Input: AC 100~240V 50/60Hz 0.7A Max. Output: 5V 3A.	

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		DC 3.7V from 2*5000mA Li-ion battery.
Connecting I/O Port(S)	:	Please refer to the User's Manual

Note:

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

SAR Test Exclusion Calculations

1. **FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.**
   (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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm					
WiFi Mode(802.11b)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.29	±0.5	9.528	2.960	3.0
2.437	9.22	±0.5	9.376	2.927	3.0
2.462	9.21	±0.5	9.354	2.935	3.0
WiFi Mode(802.11g)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.10	±0.5	9.120	2.833	3.0
2.437	9.16	±0.5	9.247	2.887	3.0
2.462	9.11	±0.5	9.141	2.869	3.0
WiFi Mode(802.11n(HT20))					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.20	±0.5	9.333	2.899	3.0
2.437	9.05	±0.5	9.016	2.815	3.0
2.462	9.02	±0.5	8.954	2.810	3.0
WiFi Mode(802.11n(HT40))					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.422	8.95	±0.5	8.810	2.742	3.0
2.437	9.07	±0.5	9.057	2.828	3.0
2.452	8.96	±0.5	8.831	2.766	3.0
BLE Mode					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2402	-6.092	±0.5	0.276	0.086	3.0
2442	-6.316	±0.5	0.262	0.082	3.0
2480	-6.641	±0.5	0.243	0.077	3.0

So standalone SAR measurements are not required.