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RF Exposure Evaluation FCC ID: XMF-MID1016-MK

1. Client Information

Applicant		Lightcomm Technology Co., Ltd.	
Address		RM 1808 18/F FO TAN INDUSTRIAL CENTRE NOS. 26-28, AU PUI WAN STREET FO TAN SHATIN NEW TERRITORIES, HONGKONG	
Manufacturer	:	Huizhou Heng Du Electronics Co., Ltd.	
Address	Ŀ	No.8 Huitai Road, Huinan High-tech Industrial Park, Huiao Avenue, Huizhou, China	

2. General Description of EUT

		compaint of Lot			
EUT Name		Tablet PC			
Models No.	:	MID1016-MK, DL1016, MID1016-MA, MID1016-L, DL1016-MK, DL1016MK, DL10XXXXXX (X can be 0~9, A~Z)			
Model		All models are in the same PCB layout interior structure and			
Difference		electrical circuits, The only difference is model name.			
Product Description		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz Bluetooth 4.2(BT): 2402MHz~2480MHz		
		RF Output Power:	802.11b: 8.69dBm		
		CALL:	802.11g: 8.66dBm		
			802.11n (HT20): 7.46dBm		
		111.50	802.11n (HT40): 5.74dBm		
			GFSK:-0.386dBm		
		The second	π /4-DQPSK: -0.377dBm		
	. A		8-DPSK: -0.935dBm		
			BLE:-0.392 dBm		
		Antenna Gain:	1.81dBi FPC Antenna		
Power Supply		DC Voltage Supply from Adapter(TEKA012-0502000UK). DC Voltage supplied by Li-ion battery.			
		TEKA012-0502000UK:			
		Input: AC 100-240V 50/60Hz 0.35A(MAX)			
Power Rating		Output: DC 5.0V 2A by adapter			
		DC 3.7V by 5000mAh Li-ion battery			
Software Version	(N/A			
Hardware Version		N/A			
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.

TB-RF-074-1. 0

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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



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2. Calculation:

Test separatio	n: 5mm	6.11				ANIA
	A HILL		WiFi Mode(802.11b)		<i>></i>	Allin
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	8.54	8±1	9	7.943	2.467	3.0
2.437	8.69	8±1	9	7.943	2.480	3.0
2.462	8.29	8±1	9	7.943	2.493	3.0
			WiFi Mode(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)	Calculation Value	Threshold Value
2.412	8.40	8±1	9	7.943	2.467	3.0
2.437	7.96	8±1	9	7.943	2.480	3.0
2.462	8.66	8±1	9	7.943	2.493	3.0
		Wi	Fi Mode(802.11n(HT2	0))		
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	7.46	7±1	8	6.310	1.960	3.0
2.437	6.93	7±1	8	6.310	1.970	3.0
2.462	6.68	7±1	8	6.310	1.980	3.0
1		Wi	Fi Mode(802.11n(HT4	0))		a r
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
2422	5.62	5±1	6	3.981	1.239	3.0
2437	5.18	5±1	6	3.981	1.243	3.0
2452	5.74	5±1	6	3.981	1.247	3.0



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Test separatio	n: 5mm					
an in	23	В	luetooth Mode (GFSK)		CILITY OF	
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	-0.386	-1±1	0	1.000	0.310	3.0
2.441	-0.377	-1±1	0	1.000	0.312	3.0
2.480	-0.935	-1±1	0	1.000	0.315	3.0
THE PARTY OF THE P	CHI.	Blue	tooth Mode (π/4-DQPS	K)	TAN	
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	-1.080	-1±1	0	1.000	0.310	3.0
2.441	-0.972	-1±1	0	1.000	0.312	3.0
2.480	-1.530	-1±1	0	1.000	0.315	3.0
EL -		Blu	uetooth Mode (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	Threshold Value
2.402	-1.118	-1±1	0	1.000	0.310	3.0
2.441	-1.014	-1±1	0	1.000	0.312	3.0
2.480	-1.484	-1±1	0	1.000	0.315	3.0
		(4) (1) (A)	BLE Mode (GFSK)			411
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	-1.029	-1±1	0	1.000	0.310	3.0
2.442	-0.392	-1±1	0	1.000	0.312	3.0
2.480	-0.899	-1±1	0	1.000	0.315	3.0

The worst RF Exposure Evaluation					
Worst Calculation Value		Total Calculation	Threshold Value		
WiFi Mode	Bluetooth Mode	Value	Tillesilola value		
2.493	0.315	2.808	3.0		

Because the WiFi and Bluetooth can be operated simultaneously, So the worst RF Exposure Evaluation is calculated as 2.493+0.315=2.808 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----