RF Exposure Evaluation

FCC ID: 2AK4T-MOMO8

1. Client Information

Applicant : Shenzhen Tideway Electronics Co., Ltd

Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China

Manufacturer : Shenzhen Tideway Electronics Co., Ltd

Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District, Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	:	Tablet PC	
Models No.	:	MOMO8 Quad, MOMO8 Quad-A33, SS8TAB, V801S, GoGEN TA 8600 Quad, TAB8	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	Operation Frequency:	Bluetooth V2.1+EDR: 2402~2480MHz 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
		Number of Channel:	Bluetooth: 79 Channels 802.11b/g/n(HT20):11 channels 802.11n(HT40):9 channels
		Max Peak Output Power:	Bluetooth: 0.496 dBm(8-DPSK) 802.11b: 9.27 dBm 802.11g: 8.97 dBm 802.11n (HT20): 8.88 dBm 802.11n (HT40): 8.76 dBm
		Antenna Gain:	2 dBi PIFA Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π/4-DQPSK(2 Mbps) 8-DPSK(3 Mbps) 802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM, 64QAM)
Power Supply	:	DC power by USB cable. DC power by Li-ion battery.	
Power Rating	:	DC 5.0V by USB cable. DC 3.7V by 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.

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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)]*[$\sqrt{f_{(GHz)}}$] ≤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 (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	9.07	9±0.5	9.5	8.913	2.768	**3.0**
2.437	9.27	9±0.5	9.5	8.913	2.783	**3.0**
2.462	9.26	9±0.5	9.5	8.913	2.797	**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	8.89	8.5±0.5	9	7.943	2.467	**3.0**
2.437	8.93	8.5±0.5	9	7.943	2.480	**3.0**
2.462	8.97	8.5±0.5	9	7.943	2.493	**3.0**
WiFi Mode(802.11n(HT20))						
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	8.86	8.5±0.5	9	7.943	2.467	**3.0**
2.437	8.82	8.5±0.5	9	7.943	2.480	**3.0**
2.462	8.88	8.5±0.5	9	7.943	2.493	**3.0**
WiFi Mode(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)	Calculation Value	Threshold Value
2.422	8.73	8.5±0.5	9	7.943	2.472	**3.0**
2.437	8.72	8.5±0.5	9	7.943	2.480	**3.0**
2.452	8.76	8.5±0.5	9	7.943	2.488	**3.0**

Bluetooth Mode (GFSK)						
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	-1.906	-2±1	-1	0.794	0.246	**3.0**
2.441	-2.015	-2±1	-1	0.794	0.248	**3.0**
2.480	-2.239	-2±1	-1	0.794	0.250	**3.0**
Bluetooth Mode (π/4-DQPSK)						
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	0.301	0±1	1	1.259	0.390	**3.0**
2.441	0.435	0±1	1	1.259	0.393	**3.0**
2.480	0.125	0±1	1	1.259	0.397	**3.0**
Bluetooth 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	0.483	0±1	1	1.259	0.390	**3.0**
2.441	0.496	0±1	1	1.259	0.393	**3.0**
2.480	0.307	0±1	1	1.259	0.397	**3.0**

So standalone SAR measurements are not required.

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