1. Product Information

I. FIGULE INFORMATION	
FCC ID:	2AV6Y-ASIUR-PC101
Product name	Tablet PC
Model number	ASIUR-101
Dowor supply	DC 3.8V by Rechargeable Li-Polymer Battery(6000mAh)
Power supply	Recharged by DC 5V Adapter
Operation frequency	Bluetooth: 2402MHz-2480MHz
Operation frequency	WIFI: 2412MHz-2462MHz
	GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V4.2 (DSS)
	GFSK for Bluetooth V4.2 (DTS)
Modulation Type	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)
	IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
	IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK)
	79 Channels for Bluetooth V4.2(DSS)
Channel Number	40 channels for Bluetooth V4.2(DTS)
	11 Channels for 20MHz bandwidth (2412~2462MHz)
Antenna Type	FPC Antenna
Antenna Gain	-3.26 dBi(Max.)
Hardware version	SD863H-G-MB-1.0 2020-04-20
Software version	ASIUR_101_V1.0
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Protable Device

FCC RF Exposure Evaluation

2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23 " [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] · [vf (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation

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The result is rounded to one decimal place for comparison 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

3. Refer evaluation method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

<u>FCC KDB publication 447498 D01 General RF Exposure Guidance v06:</u> Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

	[BT Max Conducted Power]							
Mode	Channel		Average Conducted Output					
wode	Channel	Frequency(MHz)	Power (dBm)					
	0	2402	3.378					
GFSK	39	2441	1.836					
	78	2480	0.457					
π/4DQPSK	0	2402	1.380					
	39	2441	-1.417					
	78	2480	-2.791					
	0	2402	1.594					
8DPSK	39	2441	0.109					
	78	2480	-1.565					

4. Conducted Power Results

IBLE Max Conducted Power	Aax Conducted Pow	er]
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Mode	Channel	Frequency(MHz)	Average Conducted Output Power (dBm)
	0	2402	0.818
GFSK	19	2440	0.132
	39	2480	-7.386

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Mode	Channel Frequency (MHz)		Max Conducted Power(dBm)	
	1	2412	8.83	
IEEE 802.11b	6	2437	8.58	
	11	2462	8.16	
IEEE 802.11g	1	2412	9.10	
	6	2437	8.80	
	11	2462	8.12	
	1	2412	8.57	
IEEE 802.11n HT20	6	2437	8.22	
	11	2462	8.79	

[2.4GWIFI Max Conducted Power]

5. Manufacturing tolerance

BT							
GFSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	3.0	1.0	0.0				
Tolerance ±(dB)	1.0	1.0	1.0				
π/4DQPSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	1.0	-1.0	-2.0				
Tolerance ±(dB)	1.0	1.0	1.0				
	8DPSK	(Peak)					
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	1.0	0.0	-1.0				
Tolerance ±(dB)	1.0	1.0	1.0				

BLE

BT LE (Peak)								
Channel Channel 0 Channel 19 Channel 39								
Target (dBm)	0.0	0.0	-7.0					
Tolerance ±(dB)	1.0	1.0	1.0					

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2.4GWIFI							
IEEE 802.11b (Peak)							
Channel	Channel 1	Channel 6	Channel 11				
Target (dBm)	8.0	8.0	8.0				
Tolerance ±(dB)	1.0	1.0	1.0				
IEEE 802.11g (Peak)							
Channel	Channel 1	Channel 6	Channel 11				
Target (dBm)	Target (dBm) 8.5 8.0		8.0				
Tolerance ±(dB)	rance ±(dB) 1.0 1.0		1.0				
	IEEE 802.1	1n HT20 (Peak)					
Channel	Channel 11						
Target (dBm)	8.0 8.0		8.0				
Tolerance ±(dB)	1.0	1.0	1.0				

6. Evaluation Results

BT							
	Band/Mode f (GHz) Antenna (mm)	Antenna	RF output power		SAR Test Exclusion	SAR Test	
Band/Mode			dBm	mW	Threshold	Exclusion	
GFSK	2.402	5	4.0	2.5119	0.78 < 3.0	Yes	
π/4DQPSK	2.402	5	2.0	1.5849	0.49 < 3.0	Yes	
8DPSK	2.402	5	2.0	1.5849	0.49 < 3.0	Yes	

BLE

		Antenna	RF outpu	t power	SAR Test Exclusion	SAR Test
Band/Mode	f (GHz)	Distance (mm)	dBm	mW	Threshold	Exclusion
GFSK	2.402	5	1.0	1.2589	0.39 < 3.0	Yes

Band/Mode f (C		Antenna	RF output power		CAD Test Evolusion			
	f (GHz)	f (GHz) Distance (mm)	dBm	mW	SAR Test Exclusion Threshold	SAR Test Exclusion		
IEEE 802.11b	2.412	5	9.0	7.9433	2.47 < 3.0	Yes		
IEEE 802.11g	2.412	5	9.5	8.9125	2.77 < 3.0	Yes		
IEEE 802.11n HT20	2.462	5	9.0	7.9433	2.49 < 3.0	Yes		

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1. RF Output power including tune up tolerance;

2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

3. WLAN and BT share same modular and same antenna, no need consider simultaneous transmit.

7. 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.

.....THE END OF REPORT.....