FCC RF Exposure Evaluation

1. Product Information

FCC ID:	2ABOSSKYVISION			
Product name	Tablet with wifi			
Model Number	SKY VISION, MW7526, MID7526, MID-7526H, MW-7526H			
	PCB board, structure and internal of these model(s) are the same,			
Model Declaration	Only the model name and the trade mark is different for these			
	models.			
Power supply	DC 3.70V by Rechargeable Li-ion Battery(2000mAh)			
Power supply	Recharged by DC 5V/1500mA Adapter			
	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)			
Modulation Type	IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)			
	IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)			
	IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)			
Antenna Type	Internal PIFA Antenna			
Antenna Gain	2.0 dBi (maximum)			
Hardware version	7500-M7526H-01R			
Software version	SKYVISION_V1.0			
	IEEE 802.11b: 2412 MHz – 2462 MHz			
WLAN FCC Operation	IEEE 802.11g: 2412 MHz – 2462 MHz			
frequency	IEEE 802.11n HT20: 2412 MHz – 2462 MHz			
	IEEE 802.11n HT40: 2422 MHz – 2452 MHz			
Exposure category	General population/uncontrolled environment			
EUT Type	Production Unit			
Device Type	Portable Device			

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. 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. "

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [Vf (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

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• f (GHz) is the RF channel transmit frequency in GHz

- Power and distance are rounded to the nearest mW and mm before calculation
- 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.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- 1. The [\sum of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [\sum of MPE ratios] is \leq 1.0.
- 2. The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all \leq 0.04, and the [\sum of MPE ratios] is \leq 1.0.

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.

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: 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

4. Conducted Power Results

4.1 Test Setup Block Diagram



4.2 Test Procedure

- 1) The EUT was directly connected to the power meter and antenna output port as show in the Block diagram;
- 2) Reading average power in RMS detector;

4.3 Measurement Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Power Meter	R&S	NRVS	100444	2017-06-17	2018-06-16
2	Power Sensor	R&S	NRV-Z32	10057	2017-06-17	2018-06-16

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Mode	Channel	Frequency(MHz)	Average Conducted Outpu Power (dBm)	
IEEE 802.11b	1	2412	8.49	
	6	2437	8.55	
	11	2462	8.63	
IEEE 802.11g	1	2412	8.17	
	6	2437	8.23	
	11	2462	8.29	
IEEE 802.11n HT20	1	2412	7.65	
	6	2437	7.71	
	11	2462	7.78	
IEEE 802.11n HT40	3	2422	6.59	
	6	2437	6.66	
	9	2452	6.73	

5. Manufacturing tolerance

IEEE 802.11b (Average)						
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 (Average)						
Channel	Channel 1	Channel 6	Channel 11			
Target (dBm)	8.0	8.0	8.0			
Tolerance ±(dB)	1.0	1.0	1.0			
IEEE 802.11n HT20 (Average)						
Channel	Channel 1	Channel 6	Channel 11			
Target (dBm)	8.0	8.0	8.0			
Tolerance ±(dB)	1.0	1.0	1.0			
IEEE 802.11n HT40 (Average)						
Channel	Channel 3	Channel 6	Channel 9			
Target (dBm)	6.0	6.0	6.0			
Tolerance ±(dB)	1.0	1.0	1.0			

6. Evaluation Results

6.1 Standalone

Dand/Mada	f (GHz)	Antenna Distance RF output power		SAR Test Exclusion	SAR Test	
Band/Mode		(mm)	dBm	mW	Threshold	Exclusion
IEEE 802.11b	2.450	5	9.00	7.9433	2.5 < 3.0	Yes
IEEE 802.11g	2.450	5	9.00	7.9433	2.5 < 3.0	Yes
IEEE 802.11n HT20	2.450	5	9.00	7.9433	2.5 < 3.0	Yes
IEEE 802.11n HT40	2.450	5	7.00	5.0119	1.6 < 3.0	Yes

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1. 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.

6.2 Simultaneous Transmissions for SAR Exclusion

The sample only support one WLAN modular and one antenna, no need consider simultaneous transmission;

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.....