

RF Exposure evaluation

Product Name	:	Viewedge Tab 11		
Brand Name	:	N/A		
Model	:	V11		
Series Model	:	V12, V13, V21, V22, V23, V31, V32, V33		
FCCID	:	2BN4U-V11		
Applicant	:	Viewedge,LLC		
Address	:	11410 Mathis Ave O12, Farmers Branch, TX 75234, United State		
Manufacturer	:	eYuan Vastking Electronic Co., Ltd		
Address	:	No.13,Hepu Avenue,Yuancheng District,Heyuan City,Guangdong Province,China		
Address Standard(s)	:			
	:	Province,China 47CFR §1.1310,47CFR §2.1093		
Standard(s)	:	Province,China 47CFR §1.1310,47CFR §2.1093 KDB447498 D01 General RF Exposure Guidance v06		

Issued By:

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Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Dongguan Yaxu (AiT) Technology Limited. If there is a need to alter or revise this document, the right belongs to Dongguan Yaxu (AiT) Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.



Report Revise Record

Report Version	Issued Date	Notes
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1 GENERAL INFORMATION

1.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C	
Relative Humidity:	55 %	
Air Pressure:	101 kPa	

1.2 General Description of EUT

Product Name:	Viewedge Tab 11		
Model/Type reference:	V11		
Serial Model:	V12, V13, V21, V22, V23, V31, V32, V33		
Power Supply:	DC 3.8V from battery or DC from adapter		
Hardware version.:	WT_G31_Y_6789_BJJ_UFS_MB_V2.1		
Software version .:	V11_EEA_20250224		
Test sample(s) ID:	AiTDG-250303002-1		
BT:			
Modulation:	GFSK, π/4-DQPSK, 8-DPSK		
Operation frequency:	2402MHz-2480MHz		
Channel number:	BR/EDR:79 Channels BLE: 40 Channels		
Channel separation: BR/EDR:1MHz BLE:2MHz			
Antenna type:	FPC Antenna		
Antenna gain:	-0.90dBi		
2.4G WIFI:			
Supported type:	802.11b/802.11g /802.11n(HT20)/802.11n(HT40)		
Modulation:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM		
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz		
Channel number:	802.11b/802.11g/802.11n(H20): 11 802.11n(H40): 7		
Channel separation:	5MHz		
Antenna type:	FPC Antenna		
Antenna gain:	0.07dBi		



5G WIFI:				
Modulation:	IEEE 802.11a/n/ac: OFDM(64QAM, 16QAM, QPSK, BPSK)			
	Band	Mode	Frequency Range(MHz)	Number of channels
		IEEE 802.11a	5180-5240	4
	U-NII Band I	IEEE 802.11n/ac 20MHz	5180-5240	4
Operation frequency:		IEEE 802.11n/ac 40MHz	5190-5230	2
Operation frequency:		IEEE 802.11ac 80MHz	5210	1
	U-NII Band III	IEEE 802.11a	5745-5825	5
		IEEE 802.11n/ac 20MHz	5745-5825	5
		IEEE 802.11n/ac 40MHz	5755-5795	2
		IEEE 802.11ac 80MHz	5775	1
Antenna type:	FPC Antenna			
Antenna gain:	-1.26dBi			
Remark: The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.				



1.3 Test Facility

TestLaboratory:

Dongguan Yaxu (AiT) Technology Limited

No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:

CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2017 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on April 18, 2022

FCC-Registration No.: 703111 Designation Number: CN1313

Dongguan Yaxu (AiT) Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC — Registration No.: 6819A CAB identifier: CN0122

The 3m Semi-anechoic chamber of Dongguan Yaxu (AiT) Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6819A

A2LA-Lab Cert. No.: 6317.01

Dongguan Yaxu (AiT) Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.



1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4"Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Dongguan Yaxu (AiT) Technology Limited'squality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Yaxu (AiT) laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	150KHz~30MHz ±1.20dB	(1)
Radiated Emission	9KHz~30Hz±3.10dB	(1)
Radiated Emission	9KHz~1GHz ±3.75dB	(1)
Radiated Emission	1GHz~18GHz ±3.88dB	(1)
Radiated Emission	18GHz-40GHz ±3.88dB	(1)
RF power, conducted	30MHz~6GHz ±0.16dB	(1)
RF power density, conducted	±0.24dB	(1)
Spurious emissions, conducted	±0.21dB	(1)
Temperature	±1°C	(1)
Humidity	±3%	(1)
DC and low frequency voltages	±1.5%	(1)
Time	±2%	(1)
Duty cycle	±2%	(1)
Bandwidth	±1.5x10 ⁻⁶	(1)

The report uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.



2 Method of measurement

2.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1093 RF exposure is calculated.

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures

2.2 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)] $\cdot [\sqrt{f} (GHz)] \le 3.0$ for 1-g SAR and ≤ 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
- 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.

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.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [\sum of MPE ratios] is ≤ 1.0 .



2.3 Manufacturing Tolerance

BR_EDR (Conducted)						
Frequency	BR EDR GFSK					
(MHz)	2402 2441 2480					
Target (dBm)	0	0 0				
Tolerance ± (dB)	1.0 1.0 1.0					
Frequency		$BR_EDR_\pi/4-DQPSK$				
(MHz)	2402	2441	2480			
Target (dBm)	-1.0	-1.0	-1.0			
Tolerance ± (dB)	1.0	1.0	1.0			
Frequency	BR EDR 8-DPSK					
(MHz)	2402	2441	2480			
Target (dBm)	0	-1.0	-1.0			
Tolerance ± (dB)	1.0	1.0	1.0			

BLE (Conducted)					
Frequency	GFSK 1Mbps				
(MHz) 2402 2440 2480					
Target (dBm)	-2.0 -4.0 -1.0				
Tolerance ± (dB)	1.0	1.0	1.0		

2.4GWIFI (Cor	nducted)
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Frequency	11b(Peak)			
(MHz)	2412	2437	2462	
Target (dBm)	3.0	2.0	2.0	
Tolerance ± (dB)	1.0	1.0	1.0	
Frequency	11g(Peak)			
(MHz)	2412	2437	2462	
Target (dBm)	3.0	2.0	2.0	
Tolerance ± (dB)	1.0	1.0	1.0	
Frequency	11n(HT20) (Peak)			
(MHz)	2412	2437	2462	
Target (dBm)	3.0	2.0	2.0	
Tolerance ± (dB)	1.0	1.0	1.0	

5.2G WIFI (Conducted)					
Frequency	IEEE 802.11a(AV)				
(MHz)	5180	5200)	5240	
Target (dBm)	-1.0	-1.0		-1.0	
Tolerance ± (dB)	1.0	1.0		1.0	
Frequency		IEEE 802.	11n20(AV)		
(MHz)	5180	5200)	5240	
Target (dBm)	-1.0	-1.0		-1.0	
Tolerance ± (dB)	1.0	1.0		1.0	
Frequency		IEEE 802.1	1ac20(AV)		
(MHz)	5180	5200)	5240	
Target (dBm)	-1.0	-1.0		-1.0	
Tolerance ± (dB)	1.0	1.0		1.0	
Frequency	IEEE 802.11ac40(AV)				
(MHz)	5190		5230		
Target (dBm)	-1.0			-1.0	
Tolerance ± (dB)	1.0 1.0				



5.8G WIFI (Conducted)								
Frequency	IEEE 802.11a(AV)							
(MHz)	5745	5785		5825				
Target (dBm)	-1.0	-1.0		-1.0				
Tolerance ± (dB)	1.0	1.0		1.0				
Frequency	IEEE 802.11n20(AV)							
(MHz)	5745	5785	5	5825				
Target (dBm)	-1.0	-1.0		-1.0				
Tolerance ± (dB)	1.0	1.0		1.0				
Frequency	IEEE 802.11ac20(AV)							
(MHz)	5745	5785		5825				
Target (dBm)	-1.0	-1.0		-1.0				
Tolerance ± (dB)	1.0	1.0		1.0				
Frequency	IEEE 802.11ac40(AV)							
(MHz)	5755		5795					
Target (dBm)	-2.0		-2.0					
Tolerance ± (dB)	1.0		1.0					

2.4 Evaluation Result

Standalone Evaluation Results

Band/Mode	f (GHz)	Antenna Distance (mm)			SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
BR_EDR	2.5	5	1	1.26	0.40<3	Yes
BLE	2.5	5	0	1.0	0.32<3	Yes
2.4G WIFI	2.5	5	4	2.51	0.79<3	Yes
5.2G WIFI	5.2	5	0	1.0	0.32<3	Yes
5.8G WIFI	5.8	5	0	1.0	0.32<3	Yes

2.5 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