

TEST REPORT

APPLICANT	: Vaultek Safe, Inc.
PRODUCT NAME	: Nano Touch
MODEL NAME	: VSK-NT
BRAND NAME	: Vaultek
FCC ID	: 2AONI-VSK-NT5063501
STANDARD(S)	: 47 CFR Part 15 Subpart C
RECEIPT DATE	: 2020-01-13
TEST DATE	: 2020-02-26 to 2020-03-10
ISSUE DATE	: 2020-03-11

Edited by:

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Change History				
Version	Date	Reason for change		
1.0	2020-03-11	First edition		



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1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Vaultek Safe, Inc.
Applicant Address:	37 N Orange Ave.Suite 800B Orlando, FL 32801
Manufacturer:	Jeritech Electronics, Ltd.
Manufacturer Address:	Guannanyong Industrial Estate, Shiqi Town, Panyu, GuangZhou,
	China

1.2. Equipment Under Test (EUT) Description

Product Name:	Nano Touch
Serial No:	(N/A, marked #1 by test site)
Hardware Version:	1.0.0
Software Version:	1.0.0
Operating Frequency:	433.92MHz
Channel Number:	1
Antenna Type:	PCB Antenna
Antenna Gain:	1.36dBi

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.





1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 15(10-1-15 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method determination /Remark	
1	15 203	Antenna	N/A	N/A	PASS	No deviation	
•	101200	Requirement					
	15.231(a)(1	The Max					
2)	Transmission	Mar 10, 2020	Tu Yanan	PASS	No deviation	
		Time					
3	15.231(c)	20dB	Mar 10, 2020	Tu Vanan	PASS	No deviation	
5		Bandwidth	Wai 10, 2020		1,400		
1	15.207	Conducted	Eeb 26 2020	Huong Zhivo	DAGG	No doviation	
4		Emission	1 eb 20, 2020	Thuang Zhiye	FASS	NO GENALION	
5	15.231(b)	Radiated	Mar 04 2020	Cao lioprou	DASS	No deviation	
5	15.209(a)	Emission	iviai 04, 2020		1700		

Note 1: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013.

Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

1.4. Environmental Conditions

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

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106







2.47 CFR Part 15C Requirements

2.1. Antenna Requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1.2. Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.





2.2. The Max Transmission Time

2.2.1. Requirement

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

2.2.2. Test Description

Test Setup:



2.2.3. Test Procedure

Set the SPA Center Frequency=Fundamental frequency, Span=0Hz, change the weep time until get the burst in the screen. Set EUT as normal operation and press Transmitter button. Set the SPA View. Delta Mark time.



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2.2.4. Test Result

The frequency(433.92MHz) is selected to perform testing to verify the max transmission time of the EUT.

A. Test Verdict:

Frequency (MHz)	The max transmission time	Limit	Verdict
433.92	1.2 s	≤5s	PASS

B. Test Plots:



(The max transmission time _433.92MHz)



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2.3.1. Requirement

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

As the center frequency for the device operating is 433.92MHz, thus, the 20dB bandwidth limit is 1085 kHz.

2.3.2. Test Description

Test Setup:



2.3.3. Test Procedure

Set spectrum analyzer's Center Frequency =Fundamental frequency, RBW,VBW and span to applicable value with Peak in Max Hold, A PEAK output reading and 20db Bandwidth function in spectrum analyzer were taken.



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2.3.4. Test Result

The frequency (433.92MHz) is selected to perform testing to verify the 20dB bandwidth of the EUT.

Test Verdict: Α.

Frequency (MHz) 20 dB Bandwidth (kHz)		Limits(MHz)	Verdict
433.92 27.95		≤1.085	PASS

B. Test Plots:



(Bandwidth 433.92MHz)



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2.4. Conducted Emission

2.4.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μ H/ 50Ω line impedance stabilization network (LISN).

Frequency	range	Conducted Limit (dBµV)		
(MHz)		Quai-peak	Average	
0.15 - 0.50		66 to 56	56 to 46	
0.50 - 5		56	46	
5 - 30		60	50	

NOTE:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.4.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.





2.4.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: <u>EUT+ADAPTER+433M TX</u> Test voltage: <u>AC 120V/60Hz</u> The measurement results are obtained as below: E [dB μ V] =U_R + L_{Cable loss} [dB] + A_{Factor} U_R: Receiver Reading A_{Factor}: Voltage division factor of LISN







(L Phase)

NO. Fre.		Fre. Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
	(MHz)	Quai-peak	Average	Quai-peak	Average		rendiet
1	0.1635	49.92	27.60	65.28	55.28		PASS
2	0.1994	45.15	27.68	63.63	53.63		PASS
3	0.2132	44.59	26.03	63.08	53.08	Lino	PASS
4	0.2532	41.79	25.30	61.65	51.65	LITE	PASS
5	0.3750	36.19	23.58	58.39	48.39		PASS
6	1.0375	32.32	22.45	56.00	46.00		PASS







(N Phase)	(N	Phase)
-----------	----	-------	---

NO. Fre.		Fre. Emission Level (dBµV)		Limit (dBµV)	Power-line	Verdict
	(MHz)	Quai-peak	Average	Quai-peak	Average		
1	0.1544	45.59	27.75	65.76	55.76		PASS
2	0.2669	33.43	24.91	61.21	51.21		PASS
3	0.4603	31.39	23.41	56.69	46.69	Noutral	PASS
4	0.7075	31.83	22.76	56.00	46.00	neutrai	PASS
5	1.2799	31.54	22.98	56.00	46.00		PASS
6	7.4328	26.29	13.74	60.00	50.00		PASS



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2.5. Radiated Emission

2.5.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

FCC Part 15.231(b)

Fundamental fraguenov(MHz)	Field strength of fundamental	Field strength of spurious		
	(microvolts/meter)	emission(microvolts/meter)		
40.66-40.70	2250	225		
70-130	1250	125		
130-174	1250 to 3750	125 to 375		
174-260	3750	375		
260-47	3750 to 12500	375 to 1250		
Above 470	12500	1250		

Note 1: For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note 2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)





2.5.2. Test Description

Test Setup:

1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz





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3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz. Test site have a minimum area of the ground plane covered with RF absorbing material as specified in Figure 6 of ANSI C63.4: 2014.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10:2013. For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, for radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10:2013.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant



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emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.

2.5.3. Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below: E $[dB\mu V/m] = U_R + A_T + A_{Factor} [dB]; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$ A_T: Total correction Factor except Antenna U_R: Receiver Reading G_{preamp}: Preamplifier Gain A_{Factor}: Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: Duty cycle =1, therefore, the average factor is found by 20log (Duty cycle) =0







weep Time	100.0 ms		SENSE:PU	Avg	Type: Log-Pwr	TRACE 1 2 3 4 5 6	Sweep/Control
		PNO: Fast ↔ IFGain:Low	Atten: 30 dE	un }		DET NNNNN	Sweep Time 100.0 ms
10 dB/div Ro	ef 20.00 dBm						
10.0							Sweep Setup
0.00							
0.00							
-10.0							
-20.0							
30.0							
40.0							
-50.0							
-60.0							Gate
70.0							[011,20]
							Point
Center 433.9	20000 MHz	#\/D\\	2.0 MU-		Cuusan 4	Span 0 Hz	100

(Duty cycle)



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A. Test Results for Field strength of fundamental

Fre. (MHz)	AN T	Receiver Reading U _R (PK) (dBuV)	A _T (dB)	A _{Factor} (dB@3 m)	Final Emissio n_PK (dBuV/ m)	Limit-PK (dBµV/m)	AV factor (dB)	Final Emission _AV (dBuV/m)	Limit-AV (dBµV/m)	Verdict
433.92	н	96.39	-32.20	16.11	80.30	80.30	0	80.30	80.83	PASS
433.92	V	91.74	-32.20	16.11	75.65	80.30	0	75.65	80.83	PASS



(433.92MHz, Antenna Horizontal)

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Narker 14	PRESEL 50 Ω 33.920000	DC 000 MH	z	SEI	NSE:INT		ALIGN OFF	06:27:05 AI TRAC	Mar 04, 2020	Marker
		PI IF	NO: Wide 😱 Gain:Low	Trig: Free Atten: 10	eRun)dB	Avg Hold	:>100/100	TYF De		Select Marker
10 dB/div	Ref 106.99 c	iBμV					Μ	kr1 433. 91.74	92 MHz 0 dBµV	1
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37.0										
01.0										
27.0										Properties
17.0										
										Moi 1 of
Center 434. Res BW (CI	000 MHz SPR) 120 ki	17	#VBW	300 kHz			Sween	Span 1 1.200 ms (0.00 MHz 1001 pts)	

(433.92MHz, Antenna Vertical)



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B. Test Results for Radiated emission

(433.92MHz, Antenna Horizontal, 30MHz to 5GHz) 60 70 60 90 10 500 600 700 800 900 1G 40 60 60 400 QP Fre. Pk AV Limit-PK Limit-QP Limit-AV Antenna Verdict (dBµV/m) (dBµV/m) (dBµV/m) (dBµV/m) (dBµV/m) (MHz) (dBµV/m) 434.268 75.74 N/A N/A N/A 46.00 N/A Vertical PASS 760.839 30.61 N/A N/A N/A 46.00 N/A Vertical PASS 1301.561 N/A N/A 74.00 N/A 54.00 Vertical PASS 43.16 1735.654 45.87 N/A 74.00 N/A 54.00 Vertical PASS N/A 2169.748 46.57 N/A N/A 74.00 54.00 Vertical PASS N/A 3471.177 46.44 N/A N/A 74.00 N/A 54.00 Vertical PASS 434.268 75.74 N/A N/A 74.00 N/A 54.00 Vertical PASS

(433.92MHz, Antenna Vertical, 30MHz to 5GHz)



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Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
20dB Bandwidth	±5%
Transmission time	±5%
Radiated Emission	±2.95dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2





Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	Morlab Laboratory
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China
Telephone:	+86 755 36698555
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2. Identification of the Responsible Testing Location

Nome	Shenzhen Morlab Communications Technology Co., Ltd.
Name:	Morlab Laboratory
	FL.3, Building A, FeiYang Science Park, No.8 LongChang
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Serial No. Type Manufacture		Cal. Date	Cal. Due	
EXA Signal	MV52470926	N0010A	Agilopt	2010 04 00	2020 04 08	
Analzyer	WIT55470650	N9010A	Aglient	2019.04.09	2020.04.00	
RF cable			Marlah	N1/A	NI/A	
(30MHz-26GHz)	CBUT	REUI	Monap	IN/A	N/A	
Coaxial cable	CB02	RF02	Morlab	N/A	N/A	
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A	
USB Wideband	MX54210011		Agilopt	0040 04 40	0000 04 45	
Power Sensor	IVE 10011	020217A	Aglient	2019.04.16	2020.04.15	
Computer	T430i	Think Pad	Lenovo	N/A	N/A	

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal. Due
Receiver	MY56400093	N9038A	KEYSIGHT	2019.04.09	2020.04.08
LISN	812744	NSLK 8127	Schwarzbeck	2019.03.27	2020.03.26
Pulse Limiter (20dB)	9391	VTSD 9561-D	Schwarzbeck	2019.03.27	2020.03.26
Coaxial cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A
Adapter	KX17490000 12	FC22	KUNXIN	N/A	N/A

4.3 List of Software Used

Description	Manufacturer	Software Version
Test system	Tonscend	V2.6
Power Panel	Agilent	V3.8
MORLAB EMCR V1.2	MORLAB	V1.0





4.4 Radiated Test Equipments

Equipment	Serial No.	Туре	Manufacturer	Cal. Date	Cal.Due
Name					
Receiver	MY54130016	N9038A	Agilent	2019.07.29	2020.07.28
Test Antenna - Bi-Log	9163-520	VULB 9163	Schwarzbeck	2019.11.23.	2022.11.22
Test Antenna - Loop	1520-022	FMZB1520	Schwarzbeck	2019.02.14	2022.02.13
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna – Horn	BBHA9170 #774	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25
Coaxial cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable(N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
1-18GHz pre-Amplifier	MA02	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.09
Anechoic Chamber	N/A	9m*6m*6m	CRT	2019.07.13	2022.07.12

_____ END OF REPORT _____

