



TEST REPORT

APPLICANT	: BLU Products, Inc.
PRODUCT NAME	: Tablet
MODEL NAME	: M10L
BRAND NAME	: BLU
FCC ID	: YHLBLUM10L
STANDARD(S)	: 47 CFR Part 15 Subpart B
RECEIPT DATE	: 2021-08-11
TEST DATE	: 2021-08-26
ISSUE DATE	: 2021-10-12

Hesinuo

Edited by:

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Change History						
Issue Date Reason for change						
1.0 2021-10-12		First edition				





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant: BLU Products, Inc.	
Applicant Address: 10814 NW 33rd St # 100 Doral, FL 33172,USA	
Manufacturer:	BLU Products, Inc.
Manufacturer Address:	10814 NW 33rd St # 100 Doral, FL 33172,USA

1.2. Equipment Under Test (EUT) Description

ProductName:	Tablet		
EUT No.:	15#		
Hardware Version:	T864A_V2.0		
Software Version:	BLU_M0209WW_V11.0.G.03.00_GENERIC_03-09-2021		
Tx Frequency:	GSM850: 824 MHz ~ 849 MHz		
	GSM1900: 1850 MHz ~ 1910 MHz		
	WCDMA Band II: 1850 MHz ~ 1910 MHz		
	WCDMA Band IV: 1710 MHz ~ 1755 MHz		
	WCDMA Band V: 824 MHz ~ 849 MHz		
	LTE Band 2: 1850 MHz ~ 1910 MHz		
	LTE Band 4: 1710 MHz ~ 1755 MHz		
	LTE Band 5: 824 MHz ~ 849 MHz		
	LTE Band 7: 2500 MHz ~ 2570 MHz		
	LTE Band 12: 699 MHz ~ 716 MHz		
	LTE Band 17: 704 MHz ~ 716 MHz		
	LTE Band 66: 1710 MHz ~ 1780 MHz		
	Bluetooth: 2402 MHz ~ 2480 MHz		
	802.11b/g/n: 2412 MHz ~ 2472 MHz		
Rx Frequency:	GSM850: 869 MHz ~ 894 MHz		
	GSM1900: 1930 MHz ~ 1990 MHz		
	WCDMA Band II: 1930 MHz ~ 1990 MHz		
	WCDMA Band IV: 2110 MHz ~ 2155 MHz		
	WCDMA Band V: 869 MHz ~ 894 MHz		
	LTE Band 2: 1930 MHz ~ 1990 MHz		
	LTE Band 4: 2110 MHz ~ 2155 MHz		
	LTE Band 5: 869 MHz ~ 894 MHz		
	LTE Band 7: 2620 MHz ~ 2690 MHz		



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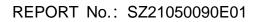


	LTE Band 12: 729 MHz ~ 746 MHz				
	LTE Band 17: 734 MHz ~ 746 MHz				
	LTE Band 66: 2110 MHz ~ 2200 MHz				
	Bluetooth: 2402 M	/Hz ~ 2480 MHz			
	802.11b/g/n: 2412	2 MHz ~ 2472 MHz			
Ancillary Equipment:	Battery				
	Brand Name:	BLU			
	Model No.:	C996749600P			
	Serial No.:	(N/A, marked #1 by test site)			
	Capacity: 6000mAh				
	Rated Voltage: 3.7V				
	Charge Limit: 4.2V				
	Manufacturer: SHEN ZHEN JIAJINYUAN TECHNOLOGY				
	CO,LTD				
	AC Adapter				
	Brand Name:	BLU			
	Model No.:	US-FC-2002			
	Serial No.: (N/A, marked #1 by test site)				
	Rated Input: 100-240V~50/60Hz, 0.3A				
	Rated Output: 5.0V=2000mA				
	Manufacturer: Dongguan Fengcheng electronic Keling Co., Ltd				

Note:

1. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.







2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title		
1	47 CFR Part 15	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	15.107	Conducted Emission	2021.08.26	Su Zhan	PASS	No deviation
2	15.109	Radiated Emission	2021.08.26	Lin Jiayong	PASS	No deviation

Note 1:The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

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.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



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2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Test Mod	les	5		
Mode 1	:	GSM850 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from		
		Adapter) + Earphone + Adapter + SIM Card		
Mode 2	:	GSM1900 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from		
		Adapter) + Earphone + Adapter + SIM Card		
Mode3	:	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging		
		from Adapter) + Earphone + Adapter + SIM Card		
Mode 4	:	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from		
		Adapter) + Earphone + Adapter + SIM Card		
Mode 5	:	WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging		
		from Adapter) + Earphone + Adapter + SIM Card		
Mode 6	:	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging		
		from Adapter) + Earphone + Adapter + SIM Card		
Mode 7	:	LTE Band 2 Idle+ Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from		
		Adapter) + Earphone + Adapter + SIM Card		
Mode 8 : LTE Band 5 Idle+ Bluetooth Idle + WLAN Idle + Camera + Battery + USB				
		Cable(Charging from Adapter) + Earphone + Adapter + SIM Card		
Mode 9	:	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + MP4 + Battery + USB		
		Cable(Charging from Adapter) + Earphone + Adapter + SIM Card		
Mode 10	:	LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + PC(data transfer) + Battery +		
		SIM Card + PC Adapter + Earphone		
Mode 11	:	LTE Band 17 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from		
		Adapter) + Earphone + Adapter		
Mode 12	:	LTE Band 66 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from		
		Adapter) + Earphone + Adapter		
Remark:				
The abov	e e	test mode in boldface (Mode 8) was the worst case of conducted emission test, only		
the test d	lata	a of these modes were reported. The above test mode in boldface (Mode 10) was the		
worst cas	se	of radiated emission test, only the test data of these modes were reported.		

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

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



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3. 47 CFR Part 15B Requirements

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.107, 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/50 Ω line impedance stabilization network (LISN).

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

NOTE:

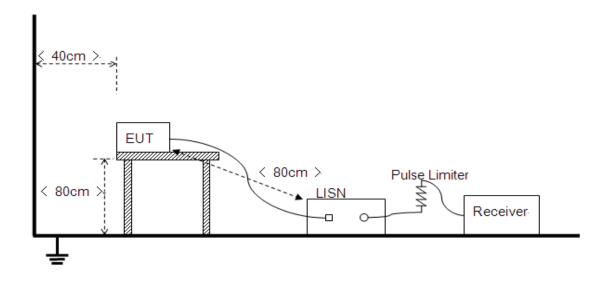
a) The limit subjects to the Class B digital device.

b) The lower limit shall apply at the band edges.

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

3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.





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The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu$ H of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

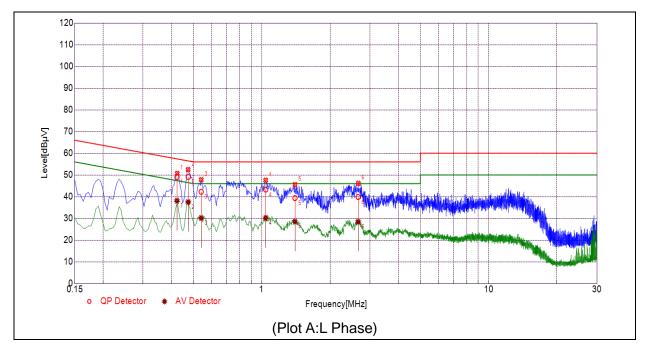
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

3.1.3. Test Result

RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; 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. All test modes are considered, refer to recorded points and plots below.



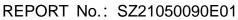


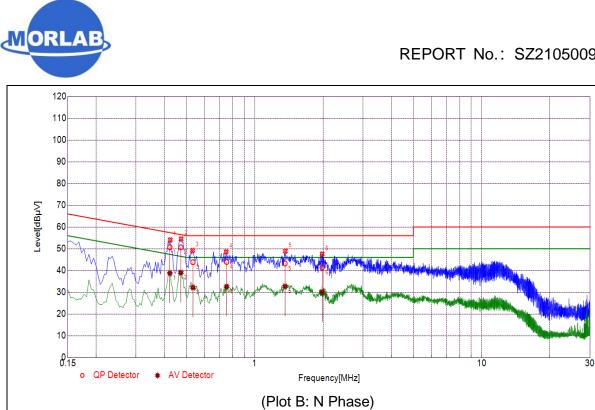


A. Test Plot and Suspicious Points:

Fre.		Emission Level (dBµV)		Limit (c	dBμV)	Dower line	Verdict
NO. (MHz)	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.4233	48.99	38.10	57.38	47.38		PASS
2	0.4743	49.09	37.52	56.44	46.44		PASS
3	0.5409	42.25	30.17	56.00	46.00	Line	PASS
4	1.0410	43.24	30.21	56.00	46.00	Line	PASS
5	1.4006	39.33	28.51	56.00	46.00		PASS
6	2.6597	39.84	28.42	56.00	46.00		PASS







NO.	Fre.	Emission Level (dBµV)		Limit (c	dΒμV)	Power-line	Verdict
NU.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.4227	50.66	38.79	57.39	47.39	- Neutral	PASS
2	0.4725	50.64	39.00	56.47	46.47		PASS
3	0.5341	43.81	32.15	56.00	46.00		PASS
4	0.7520	43.95	32.52	56.00	46.00		PASS
5	1.3596	43.19	32.65	56.00	46.00		PASS
6	1.9817	41.36	29.99	56.00	46.00		PASS





3.2. Radiated Emission

3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field Strength Limitation at 3m Measurement D		
range (MHz)	(μV/m)	(dBµV/m)	
30.0 - 88.0	100	20log 100	
88.0 - 216.0	150	20log 150	
216.0 - 960.0	200	20log 200	
Above 960.0	500	20log 500	

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed indB μ V/m is calculated by 20log Emission Level(μ V/m).

3.2.2. Frequency range of measurement

According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

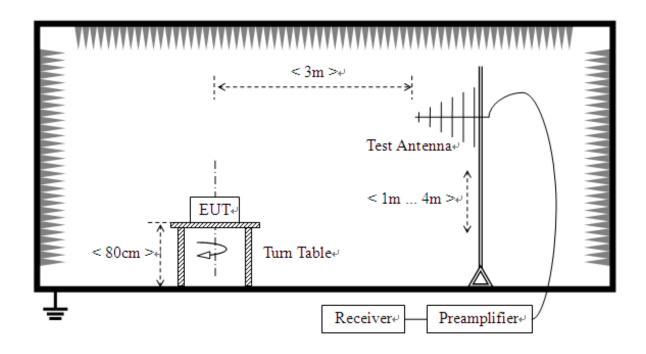
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.



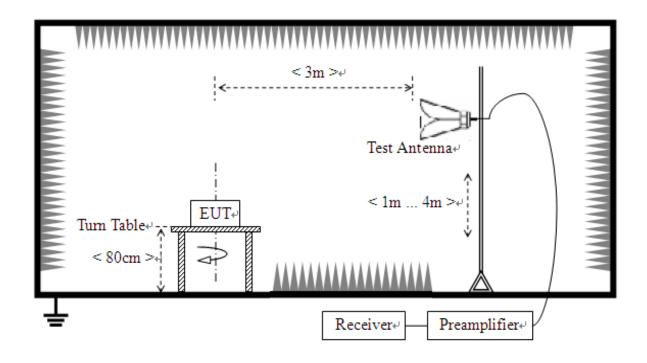


3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz





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The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

3.2.4. Test Result

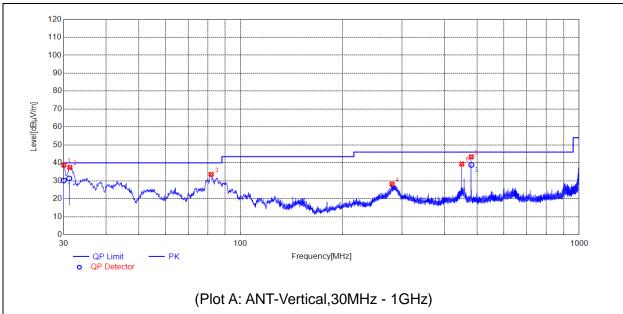
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions (6GHz-13.5GHz)which are attenuated more than 20 dB below the permissible value need not be reported.

Note: 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.







No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	30.0000	38.78	30.16	N.A	N.A	40.00	N.A	V	PASS
2	31.2611	37.46	31.33	N.A	N.A	40.00	N.A	V	PASS
3	81.8032	33.57	N.A	N.A	N.A	40.00	N.A	V	PASS
4	279.9940	28.14	N.A	N.A	N.A	46.00	N.A	V	PASS
5	450.0520	39.37	N.A	N.A	N.A	46.00	N.A	V	PASS
6	480.0280	43.36	38.91	N.A	N.A	46.00	N.A	V	PASS

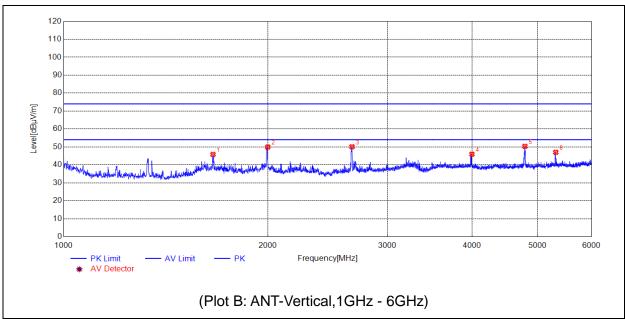


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No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1660.1320	45.82	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1999.1998	49.95	N.A	N.A	74.00	N.A	54.00	V	PASS
3	2661.3323	50.11	N.A	N.A	74.00	N.A	54.00	V	PASS
4	3999.5999	45.96	N.A	N.A	74.00	N.A	54.00	V	PASS
5	4787.7576	50.34	N.A	N.A	74.00	N.A	54.00	V	PASS
6	5316.8634	47.02	N.A	N.A	74.00	N.A	54.00	V	PASS

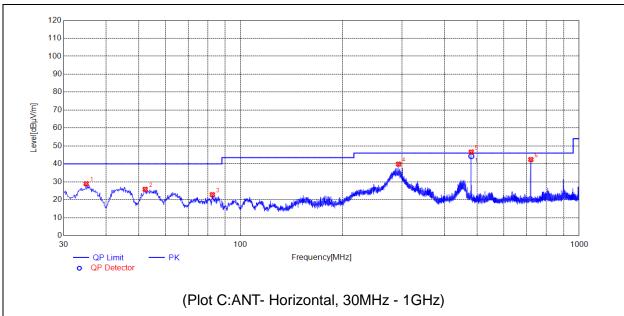


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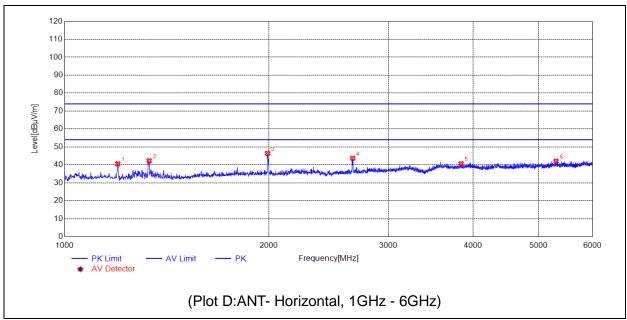
No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	34.9475	28.96	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	52.2152	25.82	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	82.4822	22.88	N.A	N.A	N.A	40.00	N.A	Н	PASS
4	292.7023	39.88	N.A	N.A	N.A	46.00	N.A	Н	PASS
5	480.0280	46.59	44.29	N.A	N.A	46.00	N.A	Н	PASS
6	720.0300	42.42	N.A	N.A	N.A	46.00	N.A	Н	PASS



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No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1197.0394	40.59	N.A	N.A	74.00	N.A	54.00	Н	PASS
2	1332.0664	42.29	N.A	N.A	74.00	N.A	54.00	Н	PASS
3	1991.1982	46.43	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	2659.3319	43.67	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	3842.5685	40.66	N.A	N.A	74.00	N.A	54.00	Н	PASS
6	5304.8610	42.09	N.A	N.A	74.00	N.A	54.00	Н	PASS





Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for	9kHz-150kHz	±3.3dB
a Level of Confidence of	150kHz-30MHz	±2.8dB
95%(U=2Uc(y))		

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for	30MHz-200MHz	±5.06dB
a Level of Confidence of	200MHz-1000MHz	±5.04dB
95%(U=2Uc(y))	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB





Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
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		
Facsimile:	+86 755 36698525		

2. Identification of the Responsible Testing Location

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

3. Accreditation Certificate

Accredited Testing	The FCC designation number is CN1192.
Laboratory:	Test firm registration number is 226174.
	(Shenzhen Morlab Communications Technology Co., Ltd.)

4. Test Software Utilized

Model	Version Number Producer	
JS32-RE	Version 2.0.2.0	Tonscend
TS+ -[JS32-CE]	Version2.5.0.0	Tonscend





5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBE CK	2019/5/24	2022/5/23
Receiver	N9038A	MY56400093	KEYSIGHT	2021/3/9	2022/3/8
Horn Antenna	BBHA 9120D	9120D-963	SCHWARZBE CK	2019/5/24	2022/5/23
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2020/10/20	2021/10/19
Preamplifier	S020180L320 3	61171/61172	LUCIX CORP.	2021/7/15	2022/7/14
Preamplifier	S10M100L380 2	46732	LUCIX CORP.	2021/7/15	2022/7/14
Receiver	ESPI	101052	R&S	2021/7/16	2022/7/15
LISN	NSLK 8127	8127449	Schwarzbeck	2021/3/9	2022/3/8
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBE CK	2021/7/21	2022/7/20

6. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
PC	DELL	VOSTRO 5370	DF2DR A01 DPC
PC Adapter	DELL	LA45NM140	OKXTTW
Earphone	vivo	N/A	N/A

— END OF REPORT



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