

RF Exposure Evaluation
FOR
LINKS2, LLC
Android Head Unit with Floating Screen
Test Model: RVHU-130-ADF

Prepared for : LINKS2, LLC
Address : 1835 Leer Dr, Elkhart, IN 46514, USA

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : August 13, 2026
Number of tested samples : 2
Sample No. : C260811004-1, C260811004-2
Serial number : Prototype
Date of Test : August 13, 2026 ~ October 08, 2026
Date of Report : October 09, 2026

RF Exposure Evaluation**Report Reference No. : LCSC08116001EG**

Date of Issue..... : October 09, 2026

Testing Laboratory Name..... : Guangzhou LCS Compliance Testing Laboratory Ltd.Address..... : No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou,
Guangdong, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name..... : LINKS2, LLC**

Address..... : 1835 Leer Dr, Elkhart, IN 46514, USA

Test SpecificationStandard..... : FCC KDB publication 447498 D01 General RF Exposure Guidance v06
FCC CFR 47 part1 1.1310
FCC CFR 47 part2 2.1091

TRF Originator..... : Guangzhou LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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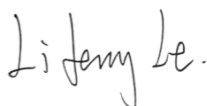
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Test Item Description..... : Android Head Unit with Floating Screen

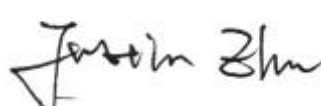
Trade Mark..... : Links2

Test Model..... : RVHU-130-ADF

Ratings..... : Please Refer to Page 6

Result : Pass**Compiled by:**

Lifeng Le / Administrator

Supervised by:

Justin Zhu/ Technique Director

Approved by:

Gavin Liang/ Manager

RF Exposure Evaluation

Test Report No. : LCSC08116001EG	<u>October 09, 2026</u> Date of issue
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EUT..... : Android Head Unit with Floating Screen

Test Model..... : RVHU-130-ADF

Applicant..... : LINKS2, LLC

Address..... : 1835 Leer Dr, Elkhart, IN 46514, USA

Telephone..... : /

Fax..... : /

Manufacturer..... : Guangzhou Yixin Electronic Technology Co., Ltd.

Address..... : Room 413, Building 3, No.68 Nanxiang 1st Road, Huangpu District,
Guangzhou, Guangdong, China

Telephone..... : /

Fax..... : /

Factory..... : Guangzhou Yixin Electronic Technology Co., Ltd.

Address..... : Room 413, Building 3, No.68 Nanxiang 1st Road, Huangpu District,
Guangzhou, Guangdong, China

Telephone..... : /

Fax..... : /

Test Result	Pass
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The 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.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	October 09, 2026	Initial Issue	---

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1. Product Information

EUT	: Android Head Unit with Floating Screen
Test Model	: RVHU-130-ADF
Ratings	: Rated Input: DC 14V Operating Voltage Range: 9V ~ 17V Max Input Current: 15A
Hardware Version	: /
Software Version	: /
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0 (DSS) 40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	: 1MHz for Bluetooth V5.0 (DSS) 2MHz for Bluetooth V5.0 (DTS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V5.0 (DSS) GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	: V5.0
Antenna Description	: Internal Antenna, 2.99dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 channels for 20MHz bandwidth (2412~2462MHz) 7 channels for 40MHz bandwidth (2422~2452MHz)
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)
Antenna Description	: Internal Antenna, 2.99dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5180MHz~5240MHz
Channel Number	: 4 channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Internal Antenna, 3.80dBi(Max.)
WIFI(5.8G Band)	:
Frequency Range	: 5745MHz~5825MHz
Channel Number	: 5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Antenna Description : Internal Antenna, 3.80dBi(Max.)

LTE :

Support Band : ☒ E-UTRA Band 2(U.S.-Band)
☒ E-UTRA Band 4(U.S.-Band)
☒ E-UTRA Band 5(U.S.-Band)
☒ E-UTRA Band 7(U.S.-Band)
☒ E-UTRA Band 12(U.S.-Band)
☒ E-UTRA Band 13(U.S.-Band)
☒ E-UTRA Band 17(U.S.-Band)
☒ E-UTRA Band 38(U.S.-Band)
☒ E-UTRA Band 41(U.S.-Band)

LTE Release Version : R9

Type Of Modulation : QPSK/16QAM

Antenna Description : External Antenna

3.87dBi (max.) For E-UTRA Band 2
1.25dBi (max.) For E-UTRA Band 4
1.75dBi (max.) For E-UTRA Band 5
1.85dBi (max.) For E-UTRA Band 7
2.36dBi (max.) For E-UTRA Band 12
1.83dBi (max.) For E-UTRA Band 13
2.36dBi (max.) For E-UTRA Band 17
0.46dBi (max.) For E-UTRA Band 38
1.85dBi (max.) For E-UTRA Band 41

Power Class : Class 3

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR 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. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3. 1 Refer Evaluation Method

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[ANSI C95.1–2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
[FCC KDB publication 447498 D01 General 1 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 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.

3. 2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure				
Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6
Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure				
Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

4. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

5. Conducted Power

[BT]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	0.13
	39	2441	1.94
	78	2480	0.96
π/4-DQPSK	0	2402	-0.54
	39	2441	0.76
	78	2480	0.74
8DPSK	0	2402	-0.51
	39	2441	0.67
	78	2480	0.26

[BLE]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BLE_1M	0	2402	-1.05
	19	2440	0.94
	39	2480	-1.55

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11B	1	2412	15.50
	6	2437	16.57
	11	2462	16.46
11G	1	2412	16.18
	6	2437	16.49
	11	2462	16.22
11N20 SISO	1	2412	16.19
	6	2437	16.32
	11	2462	16.10
11N40 SISO	3	2422	15.65
	6	2437	15.83
	9	2452	15.67

[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	36	5180	16.11
	40	5200	16.07
	48	5240	15.83
11N20 SISO	36	5180	15.91
	40	5200	15.89
	48	5240	15.75
11N40 SISO	38	5190	15.37
	46	5230	15.24
11AC20 SISO	36	5180	15.49
	40	5200	15.33
	48	5240	15.42
11AC40 SISO	38	5190	15.27
	46	5230	15.15
11AC80 SISO	42	5210	15.57

[5.8G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	149	5745	15.67
	157	5785	15.61
	165	5825	15.76
11N20 SISO	149	5745	15.63
	157	5785	15.60
	165	5825	15.60
11N40 SISO	151	5755	15.04
	159	5795	14.89
11AC20 SISO	149	5745	15.23
	157	5785	15.06
	165	5825	15.13
11AC40 SISO	151	5755	15.08
	159	5795	14.89
11AC80 SISO	155	5775	15.27

6. Manufacturing Tolerance

[BT]

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	0.0	1.0	0.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ -DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-1.0	0.0	0.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-1.0	0.0	0.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[BLE]

BLE_1M (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-1.0	0.0	-1.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[2.4G WIFI]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	16.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	16.0	16.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	16.0	16.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[5.2G WIFI]

11A (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	16.0	16.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	15.0	15.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	15.0	15.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC80 (Average)			
Channel	Channel 42		
Target (dBm)	15.0		
Tolerance $\pm$ (dB)	1.0		

[5.8G WIFI]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	15.0	14.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC40 (Average)			

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Channel	Channe151	Channel 159
Target (dBm)	15.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0
11AC80 (Average)		
Channel	Channe155	
Target (dBm)	15.0	
Tolerance $\pm$ (dB)	1.0	

[LTE Max Average Power]

Test Mode		Channel	Max Average Power (dBm)	ANT Max. Tune Up Power (dBm)
LTE	Band 2	LCH	24.53	24.0 $\pm$ 1.0
		MCH	24.51	24.0 $\pm$ 1.0
		HCH	24.37	24.0 $\pm$ 1.0
	Band 4	LCH	24.6	24.0 $\pm$ 1.0
		MCH	24.45	24.0 $\pm$ 1.0
		HCH	24.35	24.0 $\pm$ 1.0
	Band 5	LCH	24.47	24.0 $\pm$ 1.0
		MCH	24.28	24.0 $\pm$ 1.0
		HCH	24.4	24.0 $\pm$ 1.0
	Band 7	LCH	24.15	24.0 $\pm$ 1.0
		MCH	23.92	23.0 $\pm$ 1.0
		HCH	23.68	23.0 $\pm$ 1.0
	Band 12	LCH	24.42	24.0 $\pm$ 1.0
		MCH	24.29	24.0 $\pm$ 1.0
		HCH	24.29	24.0 $\pm$ 1.0
	Band 13	LCH	24.07	24.0 $\pm$ 1.0
		MCH	24.35	24.0 $\pm$ 1.0
		HCH	24.06	24.0 $\pm$ 1.0
	Band 17	LCH	24.34	24.0 $\pm$ 1.0
		MCH	24.24	24.0 $\pm$ 1.0
		HCH	24.15	24.0 $\pm$ 1.0
	Band 38	LCH	23.95	23.0 $\pm$ 1.0
		MCH	23.88	23.0 $\pm$ 1.0
		HCH	23.83	23.0 $\pm$ 1.0
	Band 41	LCH	24.1	24.0 $\pm$ 1.0
		MCH	23.95	23.0 $\pm$ 1.0
		HCH	23.63	23.0 $\pm$ 1.0

7. Measurement Results

7.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 50 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=50$ cm, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BT]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios ¹
	dBm	mW					
GFSK	2.0	1.5849	2.99	1.9907	0.0006	1.0000	0.0006

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$\pi/4$ -DQPSK	1.0	1.2589	2.99	1.9907	0.0005	1.0000	0.0005
8-DPSK	1.0	1.2589	2.99	1.9907	0.0005	1.0000	0.0005

[BT LE]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
BT LE	1.0	1.2589	2.99	1.9907	0.0005	1.0000	0.0005

[2.4G WIFI Ant1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
IEEE 802.11b	17.0	50.1187	2.99	1.9907	0.0199	1.0000	0.0199
IEEE 802.11g	17.0	50.1187	2.99	1.9907	0.0199	1.0000	0.0199
IEEE 802.11n HT20	17.0	50.1187	2.99	1.9907	0.0199	1.0000	0.0199
IEEE 802.11n HT40	16.0	39.8107	2.99	1.9907	0.0158	1.0000	0.0158

[5.2G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios2
	dBm	mW					
IEEE 802.11a	17.0	50.1187	3.8	2.3988	0.0239	1.0000	0.0239
IEEE 802.11n HT20	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11n HT40	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11ac VHT20	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11ac VHT40	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11ac VHT80	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190

[5.8G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios2
	dBm	mW					
IEEE 802.11a	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11n HT20	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11n HT40	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11ac VHT20	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11ac VHT40	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190
IEEE 802.11ac VHT80	16.0	39.8107	3.8	2.3988	0.0190	1.0000	0.0190

<LTE>

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios3
	dBm	mW					
LTE Band 2	25.0	316.2278	3.87	2.4378	0.1534	1.0000	0.1534
LTE Band 4	25.0	316.2278	1.25	1.3335	0.0839	1.0000	0.0839
LTE Band 5	25.0	316.2278	1.75	1.4962	0.0942	0.5493	0.1715
LTE Band 7	25.0	316.2278	1.85	1.5311	0.0964	1.0000	0.0964

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LTE Band 12	25.0	316.2278	2.36	1.7219	0.1084	0.466	0.2326
LTE Band 13	25.0	316.2278	1.83	1.5241	0.0959	0.518	0.1851
LTE Band 17	25.0	316.2278	2.36	1.7219	0.1084	1.0000	0.1084
LTE Band 38	24.0	251.1886	0.46	1.1117	0.0556	0.518	0.1073
LTE Band 41	25.0	316.2278	1.85	1.5311	0.0964	1.0000	0.0964

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 50 cm from user manual provide by manufacturer.
4. For GSM, Duty cycle=1/8.

7.2 Simultaneous Transmission MPE Evaluation

The sample support one BT& BLE&2.4GWIFI,one 5.2GWLAN &5.8GWLAN, another one LTE transmit antenna, so need consider simultaneous transmission; Bluetooth and WIFI cannot transmit simultaneously. Simultaneous transmission MPE

According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

$$TER = \sum_{k=1}^{N_S} \left(\frac{SAR_k}{SAR_{lim}} \right) + \sum_{k=1}^{N_f} \left(\frac{MPE_{field,k}}{MPE_{field,lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left(\frac{MPE_{PD,k}}{MPE_{PD,lim}} \right)$$

$\sum$ of MPE ratios ≤ 1.0

Max MPE ratios1	Max MPE ratios2	Max MPE ratios3	$\sum$ MPE ratios	Limit	Results
0.0199	0.0239	0.2326	0.2764	1.000	Pass

8. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

9. Description of Test Facility

CNAS Registration Number is L11555
A2LA Certificate Number: 5099.01
FCC Designation Number is CN1379
Test Firm Registration Number: 729882

10.Measurement Uncertainty

BT&5.2GWLAN&5.3GWLAN&5.5GWLAN&5.8GWLAN/PMR/GSM/WCDMA/LTE:

Test Item	Frequency Range	Uncertainty	Note
Output power	1GHz-40GHz	± 0.57 dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

-----THE END OF REPORT-----