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RF Exposure evaluation

Report Reference No.: CTL2506093031-WFH

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Product Name.....: Geodetic GNSS Receiver

Model/Type reference.....: AR15

List Model(s).....: N/A

Trade Mark.....: 

FCC ID.....: 2BQV3-AR15

Applicant's name.....: Archimedes Innovation Technology Co., Ltd.

Address of applicant.....: Room 604, Building 37, No. 333, Qinqiang Road, Xuhui District, Shanghai, China

Test Firm.....: Shenzhen CTL Testing Technology Co., Ltd.

Address of Test Firm.....: Floor 1-A, Baisha Technology Park, No.3011, Shaheji Road, Nanshan District, Shenzhen, China 518055

Test specification.....:

Standard.....: 47CFR §1.1310

47CFR §2.1093

KDB447498 D01 General RF Exposure Guidance v06

TRF Originator.....: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF.....: Dated 2011-01

Date of receipt of test item.....: Jul 17, 2025

Date of Test Date.....: Jul 17, 2025-Jan 13, 2026

Date of Issue.....: Jan 14, 2026

Result.....: Pass

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RF Exposure evaluation REPORT

Test Report No.: CTL2506093031-WFH	Jan 14, 2026 Date of issue
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Equipment under Test : Geodetic GNSS Receiver

Sample No : CTL2506093031

Model /Type : AR15

Listed Models : N/A

Applicant : **Archimedes Innovation Technology Co., Ltd.**

Address : Room 604, Building 37, No. 333, Qinjiang Road, Xuhui District, Shanghai, China

Manufacturer : **Archimedes Innovation Technology Co., Ltd.**

Address : Room 604, Building 37, No. 333, Qinjiang Road, Xuhui District, Shanghai, China

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

[illegible]

1. GENERAL INFORMATION

1.1.Environmental conditions

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

Normal Temperature:	25°C -35°C
Relative Humidity:	35%-55 %
Air Pressure:	101 KPa

1.2. Product Information

FCC ID:	2BQV3-AR15
Product name	Geodetic GNSS Receiver
Model number	AR15
Power supply:	DC 7.4V from battery
Working voltage:	Adapter Model: ABT024050FU Input: AC 100-240V~50/60Hz 0.5A Max Output: DC 5V---2.4A 12.0W
Modulation Type	Bluetooth: GFSK, Pi/4DQPSK, 8DPSK Bluetooth LE: GFSK 2.4G WIFI: 802.11b: DSSS 802.11g/802.11n(HT20)/802.11n(HT40): OFDM 5G WIFI: OFDM GMSK for GPRS; 8-PSK for EDGE; (WCDMA)QPSK; (LTE)QPSK 16QAM; Radio station: FM
Antenna Type	PIFA Antenna For Bluetooth, BLE, 2.4GWI-FI and 5GWI-FI, 2G, 3G, 4G, GNSS Receiver External Antenna For Radio station
Antenna Gain	4.14dBi (max.) For all Bluetooth, Bluetooth LE, 2.4G WIFI, 5G_Band 1: 2.58dBi 5G_Band 3: 5.30Bi GSM850: -5.84dBi PCS1900: 3.33dBi WCDMA Band II: 3.33dBi WCDMA Band IV: 2.69dBi WCDMA Band V: -5.84dBi LTE Band 2: 3.33dBi LTE Band 4: 2.69dBi LTE Band 5: -5.84dBi LTE Band 7: 1.20dBi LTE Band 12: -9.65dBi LTE Band 13: -7.08dBi LTE Band 25: 4.23dBi LTE Band 26: -1.76dBi LTE Band 41: 0.47dBi Radio station: 2.00dBi
Hardware version	V1.0
Software version	V1.0
Operation Frequency Band	Bluetooth: 2402-2480MHz Bluetooth LE: 2402-2480MHz 2.4G WIFI: 2412-2462MHz 5G WIFI: 5180-5240MHz 5745-5825MHz 2G: GSM850, PCS1900 3G: Band II/IV/V

	4G: Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 25, Band 26, Band 41 Radio station: 410MHz - 470MHz
Extreme temp. Tolerance	-20°C to +55°C
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Mobile Device

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No.3011 Shahexi Road, Nanshan District, Shenzhen, China 518055

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 32/EN 55032 requirements.

1.3.2 Laboratory accreditation

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

A2LA-Lab Cert. No. 4343.01

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory 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.

IC Registration No.: 9618B

CAB identifier: CN0041

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9618B.

FCC-Registration No.: 399832

Designation No.: CN1216

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory 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. Registration 399832.

1.4. Statement of the 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 acc. 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 Shenzhen CTL Testing Technology Co., Ltd. quality system acc. 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 CTL laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±1.60 dB	(1)
Occupied Bandwidth	±0.20ppm	(1)

Radiated Emission 9KHz~30MHz	$\pm 3.40\text{dB}$	(1)
Radiated Emission 30~1000MHz	$\pm 4.10\text{dB}$	(1)
Radiated Emission Above 1GHz	$\pm 4.32\text{dB}$	(1)
Conducted Disturbance 0.15~30MHz	$\pm 3.20\text{dB}$	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

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

[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 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/Controlled 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. Antenna Information

The EUT can only use antennas certificated as follows provided by manufacturer;

External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain
Bluetooth&BLE&2.4G WIFI	PIFA Antenna	2400MHz – 2500MHz	4.14dBi (max.) For Bluetooth&BLE&2.4G WIFI
5G WIFI	PIFA Antenna	5100MHz – 5800MHz	2.58dBi (max.) For 5G WIFI Band 1 5.30dBi (max.) For 5G WIFI Band 3
GSM&WCDMA <E	PIFA Antenna	600 MHz – 2500 MHz	GSM850: -5.84dBi PCS1900: 3.33dBi WCDMA Band II: 3.33dBi WCDMA Band IV: 2.69dBi WCDMA Band V: -5.84dBi LTE Band 2: 3.33dBi LTE Band 4: 2.69dBi LTE Band 5: -5.84dBi LTE Band 7: 1.20dBi LTE Band 12: -9.65dBi LTE Band 13: -7.08dBi LTE Band 25: 4.23dBi LTE Band 26: -1.76dBi LTE Band 41: 0.47dBi
Radio station	External Antenna	410MHz - 470MHz	2.00dBi (max.) For Radio station

6. Conducted Power and Manufacturing Tolerance

General Note:

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing, further SAR test reduction and MPE.

< Bluetooth >

Mode	TX Type	Frequency (MHz)	Maximum Peak Output Power (dBm)	Tune-Up
			ANT1	ANT1
GFSK	SISO	2402	-0.88	0.0±1
		2441	-0.60	0.0±1
		2480	0.67	0.0±1
Pi/4DQPSK	SISO	2402	0.05	0.0±1
		2441	0.86	0.0±1
		2480	1.81	1.0±1
8DPSK	SISO	2402	-0.11	0.0±1
		2441	0.41	0.0±1
		2480	1.41	1.0±1
BLE 1M	SISO	2402	-4.83	-4.0±1
		2440	-3.19	-3.0±1
		2480	-3.39	-3.0±1

<2.4G WIFI >

Mode	TX Type	Frequency (MHz)	Maximum Peak Output Power (dBm)	Tune-Up
			ANT1	ANT1
802.11b	SISO	2412	15.18	15.0±1
		2437	16.40	16.0±1
		2462	16.21	16.0±1
802.11g	SISO	2412	15.96	15.0±1
		2437	16.31	16.0±1
		2462	14.44	14.0±1
802.11n (HT20)	SISO	2412	16.03	16.0±1
		2437	16.47	16.0±1
		2462	15.06	15.0±1
802.11n (HT40)	SISO	2422	16.12	16.0±1
		2437	16.20	16.0±1
		2452	15.82	15.0±1

<5G WIFI Band 1>

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Tune-Up
			ANT1	ANT1
802.11a	SISO	5180	11.76	11.0±1
		5200	11.82	11.0±1
		5240	11.31	11.0±1
802.11n (HT20)	SISO	5180	11.58	11.0±1
		5200	11.63	11.0±1
		5240	10.51	10.0±1
802.11n (HT40)	SISO	5190	10.71	10.0±1
		5230	10.47	10.0±1
802.11ac (VHT20)	SISO	5180	11.58	11.0±1
		5200	11.62	10.0±1
		5240	10.77	10.0±1
802.11ac (VHT40)	SISO	5190	10.98	10.0±1
		5230	10.22	10.0±1
802.11ac (VHT80)	SISO	5210	10.08	10.0±1

<5G WIFI Band 3>

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Tune-Up
			ANT1	ANT1
802.11a	SISO	5745	11.63	11.0±1
		5785	11.62	11.0±1
		5825	12.14	12.0±1
802.11n (HT20)	SISO	5745	11.25	11.0±1
		5785	11.56	11.0±1
		5825	11.96	11.0±1
802.11n (HT40)	SISO	5755	11.64	11.0±1
		5795	12.13	12.0±1
802.11ac (VHT20)	SISO	5745	11.18	11.0±1
		5785	11.40	11.0±1
		5825	12.06	12.0±1
802.11ac (VHT40)	SISO	5755	11.85	11.0±1
		5795	12.15	12.0±1
802.11ac (VHT80)	SISO	5775	11.42	11.0±1

<GSM Max Conducted Power>

Test Mode		Channel	Frequency (MHz)	Max Conducted Power (dBm)	Tune-Up
2G	GSM850	LCH	824.2	33.79	33.0±1
		MCH	836.6	33.96	33.0±1
		HCH	848.8	34.08	34.0±1
	PCS1900	LCH	1850.2	28.75	28.0±1
		MCH	1880	29.03	29.0±1
		HCH	1909.8	29.32	29.0±1

<WCDMA Max Conducted Power>

Test Mode		Channel	Frequency (MHz)	Max Conducted Power (dBm)	Tune-Up
WCDMA	Band 2	LCH	1852.4	20.90	20.0±1
		MCH	1800.0	21.01	21.0±1
		HCH	1907.6	20.99	20.0±1
	Band 4	LCH	1712.4	21.01	21.0±1
		MCH	1732.6	21.11	21.0±1
		HCH	1752.6	21.11	21.0±1
	Band 5	LCH	826.4	20.59	20.0±1
		MCH	836.6	20.66	20.0±1
		HCH	846.6	20.67	20.0±1

<LTE Max Conducted Power>

Test Mode		Modulation	Max Conducted Power (dBm)	Tune-Up
LTE	Band 2	QPSK	22.95	22.0±1
		16QAM	23.03	23.0±1
	Band 4	QPSK	23.63	23.0±1
		16QAM	23.60	23.0±1
	Band 5	QPSK	23.04	23.0±1
		16QAM	23.00	23.0±1
	Band 7	QPSK	22.31	22.0±1
		16QAM	22.29	22.0±1
	Band 12	QPSK	23.79	23.0±1
		16QAM	23.30	23.0±1
	Band 13	QPSK	23.16	23.0±1
		16QAM	23.11	23.0±1
	Band 25	QPSK	23.58	23.0±1
		16QAM	23.37	23.0±1
	Band 26	QPSK	23.17	23.0±1
		16QAM	22.99	22.0±1
	Band 41	QPSK	22.18	22.0±1
		16QAM	21.91	21.0±1

<Radio station>

Modulation	Test Mode	Max Conducted Power (dBm)	Tune-Up
FM	LCH	30.140	30.0±1
	MCH	30.500	30.0±1
	HCH	29.200	30.0±1

7. Measurement Results

7.1 Standalone MPE

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
BR/EDR	2.00	1.5849	4.14	2.5942	0.0008	1.0000
BLE	-2.0	0.6310	4.14	2.5942	0.0003	1.0000
IEEE 802.11b <2.4G WIFI >	17.0	50.1187	4.14	2.5942	0.0259	1.0000
IEEE 802.11g <2.4G WIFI >	17.0	50.1187	4.14	2.5942	0.0259	1.0000
IEEE 802.11n HT20 <2.4G WIFI >	17.0	50.1187	4.14	2.5942	0.0259	1.0000
IEEE 802.11n HT40 <2.4G WIFI >	17.0	50.1187	4.14	2.5942	0.0259	1.0000
802.11a <5G WIFI Band 1>	12.0	15.8489	2.58	1.8113	0.0057	1.0000
802.11n (HT20) <5G WIFI Band 1>	12.0	15.8489	2.58	1.8113	0.0057	1.0000
802.11n (HT40)	11.0	12.5893	2.58	1.8113	0.0045	1.0000

<5G WIFI Band 1>						
802.11ac (VHT20) <5G WIFI Band 1>	12.0	15.8489	2.58	1.8113	0.0057	1.0000
802.11ac (VHT40) <5G WIFI Band 1>	11.0	12.5893	2.58	1.8113	0.0045	1.0000
802.11ac (VHT80) <5G WIFI Band 1>	11.0	12.5893	2.58	1.8113	0.0045	1.0000
802.11a <5G WIFI Band 3>	13.0	19.9526	5.30	3.3884	0.0135	1.0000
802.11n (HT20) <5G WIFI Band 3>	12.0	15.8489	5.30	3.3884	0.0107	1.0000
802.11n (HT40) <5G WIFI Band 3>	13.0	19.9526	5.30	3.3884	0.0135	1.0000
802.11ac (VHT20) <5G WIFI Band 3>	13.0	19.9526	5.30	3.3884	0.0135	1.0000
802.11ac (VHT40) <5G WIFI Band 3>	13.0	19.9526	5.30	3.3884	0.0135	1.0000
802.11ac (VHT80) <5G WIFI Band 3>	12.0	15.8489	5.30	3.3884	0.0107	1.0000
GSM850	35.00	3162.2777	-5.84	0.2606	0.1640	0.5495
PCS1900	30.00	1000.0000	3.33	2.1528	0.4283	1.0000
WCDMA Band 2	22.00	158.4893	3.33	2.1528	0.0679	1.0000
WCDMA Band 4	22.00	158.4893	2.69	1.8578	0.0586	1.0000
WCDMA Band 5	21.00	125.8925	-5.84	0.2606	0.0065	0.5509
LTE Band 2	24.00	251.1886	3.33	2.1528	0.1076	1.0000
LTE Band 4	24.00	251.1886	2.69	1.8578	0.0928	1.0000
LTE Band 5	24.00	251.1886	-5.84	0.2606	0.0130	0.5498
LTE Band 7	23.00	199.5262	1.20	1.3183	0.0523	1.0000
LTE Band 12	24.00	251.1886	-9.65	0.1084	0.0054	1.0000
LTE Band 13	24.00	251.1886	-7.08	0.1959	0.0098	1.0000
LTE Band 25	24.00	251.1886	4.23	2.6485	0.1324	1.0000
LTE Band 26	24.00	251.1886	-1.76	0.6668	0.0333	1.0000
LTE Band 41	23.00	199.5262	0.47	1.1143	0.0442	1.0000
Radio station	31.00	1258.9254	2.00	1.5849	0.3969	1.0000

Remark:

1. Output power (Average) including turn-up tolerance;
2. Output power is burst average power;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer;
4. MPE values = $PG/4\pi R^2$

7.2 Simultaneous Transmission MPE

The sample support one BT&2.4GWLAN&5GWLAN and another one LTE&WCDMA&GSM transmit antenna, so need consider simultaneous transmission;

Simultaneous transmission MPE

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

$\sum \sum$ of MPE ratios ≤ 1.0

Bluetooth+GSM			
Mode	$\sum$ MPE ratios	Limit	Results
BR/EDR + GSM850	0.1648	1.000	Pass
BR/EDR + GSM1900	0.4291	1.000	Pass
BLE + GSM850	0.1643	1.000	Pass
BLE + GSM1900	0.4286	1.000	Pass

Bluetooth+WCDMA			
Mode	$\sum$ MPE ratios	Limit	Results
BR/EDR + WCDMA Band 2	0.0687	1.000	Pass
BR/EDR + WCDMA Band 4	0.0594	1.000	Pass
BR/EDR + WCDMA Band 5	0.0073	1.000	Pass
BLE + WCDMA Band 2	0.0682	1.000	Pass
BLE + WCDMA Band 4	0.0589	1.000	Pass
BLE + WCDMA Band 5	0.0068	1.000	Pass

Bluetooth+LTE			
Mode	$\sum$ MPE ratios	Limit	Results
BR/EDR + LTE Band 2	0.1084	1.000	Pass
BR/EDR + LTE Band 4	0.0936	1.000	Pass
BR/EDR + LTE Band 5	0.0138	1.000	Pass
BR/EDR + LTE Band 7	0.0531	1.000	Pass
BR/EDR + LTE Band 12	0.0062	1.000	Pass
BR/EDR + LTE Band 13	0.0106	1.000	Pass
BR/EDR + LTE Band 25	0.1332	1.000	Pass
BR/EDR + LTE Band 26	0.0341	1.000	Pass
BR/EDR + LTE Band 41	0.0450	1.000	Pass
BLE + LTE Band 2	0.1079	1.000	Pass
BLE + LTE Band 4	0.0931	1.000	Pass
BLE + LTE Band 5	0.0133	1.000	Pass
BLE + LTE Band 7	0.0526	1.000	Pass
BLE + LTE Band 12	0.0057	1.000	Pass
BLE + LTE Band 13	0.0101	1.000	Pass
BLE + LTE Band 25	0.1327	1.000	Pass
BLE + LTE Band 26	0.0336	1.000	Pass
BLE + LTE Band 41	0.0445	1.000	Pass

Bluetooth+Radio station			
Mode	$\sum$ MPE ratios	Limit	Results
BR/EDR + Radio station	0.3977	1.000	Pass
BLE + Radio station	0.3972	1.000	Pass

2.4G WLAN+GSM			
Mode	$\sum$ MPE ratios	Limit	Results
IEEE 802.11b + GSM850	0.1899	1.000	Pass
IEEE 802.11b + GSM1900	0.4542	1.000	Pass
IEEE 802.11g + GSM850	0.1899	1.000	Pass
IEEE 802.11g + GSM1900	0.4542	1.000	Pass
IEEE 802.11n20 + GSM850	0.1899	1.000	Pass
IEEE 802.11n20 + GSM1900	0.4542	1.000	Pass
IEEE 802.11n40 + GSM850	0.1899	1.000	Pass
IEEE 802.11n40 + GSM1900	0.4542	1.000	Pass

2.4G WLAN+WCDMA			
Mode	$\sum$ MPE ratios	Limit	Results
IEEE 802.11b + WCDMA Band 2	0.0938	1.000	Pass
IEEE 802.11b + WCDMA Band 4	0.0845	1.000	Pass
IEEE 802.11b + WCDMA Band 5	0.0324	1.000	Pass
IEEE 802.11g + WCDMA Band 2	0.0938	1.000	Pass
IEEE 802.11g + WCDMA Band 4	0.0845	1.000	Pass
IEEE 802.11g + WCDMA Band 5	0.0324	1.000	Pass
IEEE 802.11n20 + WCDMA Band 2	0.0938	1.000	Pass
IEEE 802.11n20 + WCDMA Band 4	0.0845	1.000	Pass
IEEE 802.11n20 + WCDMA Band 5	0.0324	1.000	Pass

IEEE 802.11n40 + WCDMA Band 2	0.0938	1.000	Pass
IEEE 802.11n40 + WCDMA Band 4	0.0845	1.000	Pass
IEEE 802.11n40 + WCDMA Band 5	0.0324	1.000	Pass

2.4G WLAN+LTE			
Mode	$\sum$ MPE ratios	Limit	Results
IEEE 802.11b + LTE Band 2	0.1335	1.000	Pass
IEEE 802.11b + LTE Band 4	0.1187	1.000	Pass
IEEE 802.11b + LTE Band 5	0.0389	1.000	Pass
IEEE 802.11b + LTE Band 7	0.0782	1.000	Pass
IEEE 802.11b + LTE Band 12	0.0313	1.000	Pass
IEEE 802.11b + LTE Band 13	0.0357	1.000	Pass
IEEE 802.11b + LTE Band 25	0.1583	1.000	Pass
IEEE 802.11b + LTE Band 26	0.0592	1.000	Pass
IEEE 802.11b + LTE Band 41	0.0701	1.000	Pass
IEEE 802.11g + LTE Band 2	0.1335	1.000	Pass
IEEE 802.11g + LTE Band 4	0.1187	1.000	Pass
IEEE 802.11g + LTE Band 5	0.0389	1.000	Pass
IEEE 802.11g + LTE Band 7	0.0782	1.000	Pass
IEEE 802.11g + LTE Band 12	0.0313	1.000	Pass
IEEE 802.11g + LTE Band 13	0.0357	1.000	Pass
IEEE 802.11g + LTE Band 25	0.1583	1.000	Pass
IEEE 802.11g + LTE Band 26	0.0592	1.000	Pass
IEEE 802.11g + LTE Band 41	0.0701	1.000	Pass
IEEE 802.11n20 + LTE Band 2	0.1335	1.000	Pass
IEEE 802.11n20 + LTE Band 4	0.1187	1.000	Pass
IEEE 802.11n20 + LTE Band 5	0.0389	1.000	Pass
IEEE 802.11n20 + LTE Band 7	0.0782	1.000	Pass
IEEE 802.11n20 + LTE Band 12	0.0313	1.000	Pass
IEEE 802.11n20 + LTE Band 13	0.0357	1.000	Pass
IEEE 802.11n20 + LTE Band 25	0.1583	1.000	Pass
IEEE 802.11n20 + LTE Band 26	0.0592	1.000	Pass
IEEE 802.11n20 + LTE Band 41	0.0701	1.000	Pass
IEEE 802.11n40 + LTE Band 2	0.1335	1.000	Pass
IEEE 802.11n40 + LTE Band 4	0.1187	1.000	Pass
IEEE 802.11n40 + LTE Band 5	0.0389	1.000	Pass
IEEE 802.11n40 + LTE Band 7	0.0782	1.000	Pass
IEEE 802.11n40 + LTE Band 12	0.0313	1.000	Pass
IEEE 802.11n40 + LTE Band 13	0.0357	1.000	Pass
IEEE 802.11n40 + LTE Band 25	0.1583	1.000	Pass
IEEE 802.11n40 + LTE Band 26	0.0592	1.000	Pass
IEEE 802.11n40 + LTE Band 41	0.0701	1.000	Pass

2.4G WLAN+Radio station			
Mode	$\sum$ MPE ratios	Limit	Results
IEEE 802.11b + Radio station	0.4228	1.000	Pass
IEEE 802.11g + Radio station	0.4228	1.000	Pass
IEEE 802.11n20 + Radio station	0.4228	1.000	Pass
IEEE 802.11n40 + Radio station	0.4228	1.000	Pass

5G WLAN(Band 1)+GSM			
Mode	$\sum$ MPE ratios	Limit	Results
802.11a + GSM850	0.1697	1.000	Pass
802.11a + GSM1900	0.4340	1.000	Pass
802.11n(HT20) + GSM850	0.1697	1.000	Pass
802.11n(HT20) + GSM1900	0.4340	1.000	Pass
802.11n(HT40) + GSM850	0.1685	1.000	Pass
802.11n(HT40) + GSM1900	0.4328	1.000	Pass
802.11ac(VHT20) + GSM850	0.1697	1.000	Pass
802.11ac(VHT20) + GSM1900	0.4340	1.000	Pass
802.11ac(VHT40) + GSM850	0.1685	1.000	Pass
802.11ac(VHT40) + GSM1900	0.4328	1.000	Pass
802.11ac(VHT80) + GSM850	0.1685	1.000	Pass
802.11ac(VHT80) + GSM1900	0.4328	1.000	Pass

5G WLAN(Band 1)+WCDMA			
Mode	$\sum$ MPE ratios	Limit	Results
802.11a + WCDMA Band 2	0.0736	1.000	Pass
802.11a + WCDMA Band 4	0.0643	1.000	Pass
802.11a + WCDMA Band 5	0.0122	1.000	Pass
802.11n(HT20) + WCDMA Band 2	0.0736	1.000	Pass
802.11n(HT20) + WCDMA Band 4	0.0643	1.000	Pass
802.11n(HT20) + WCDMA Band 5	0.0122	1.000	Pass
802.11n(HT40) + WCDMA Band 2	0.0724	1.000	Pass
802.11n(HT40) + WCDMA Band 4	0.0631	1.000	Pass
802.11n(HT40) + WCDMA Band 5	0.0110	1.000	Pass
802.11ac(VHT20) + WCDMA Band 2	0.0736	1.000	Pass
802.11ac(VHT20) + WCDMA Band 4	0.0643	1.000	Pass
802.11ac(VHT20) + WCDMA Band 5	0.0122	1.000	Pass
802.11ac(VHT40) + WCDMA Band 2	0.0724	1.000	Pass
802.11ac(VHT40) + WCDMA Band 4	0.0631	1.000	Pass
802.11ac(VHT40) + WCDMA Band 5	0.0110	1.000	Pass
802.11ac(VHT80) + WCDMA Band 2	0.0724	1.000	Pass
802.11ac(VHT80) + WCDMA Band 4	0.0631	1.000	Pass
802.11ac(VHT80) + WCDMA Band 5	0.0110	1.000	Pass

5G WLAN(Band 1)+LTE			
Mode	$\sum$ MPE ratios	Limit	Results
802.11a + LTE Band 2	0.1133	1.000	Pass
802.11a + LTE Band 4	0.0985	1.000	Pass
802.11a + LTE Band 5	0.0187	1.000	Pass
802.11a + LTE Band 7	0.0580	1.000	Pass
802.11a + LTE Band 12	0.0111	1.000	Pass
802.11a + LTE Band 13	0.0155	1.000	Pass
802.11a + LTE Band 25	0.1381	1.000	Pass
802.11a + LTE Band 26	0.0390	1.000	Pass
802.11a + LTE Band 41	0.0499	1.000	Pass
802.11n(HT20) + LTE Band 2	0.1133	1.000	Pass
802.11n(HT20) + LTE Band 4	0.0985	1.000	Pass
802.11n(HT20) + LTE Band 5	0.0187	1.000	Pass
802.11n(HT20) + LTE Band 7	0.0580	1.000	Pass
802.11n(HT20) + LTE Band 12	0.0111	1.000	Pass
802.11n(HT20) + LTE Band 13	0.0155	1.000	Pass
802.11n(HT20) + LTE Band 25	0.1381	1.000	Pass
802.11n(HT20) + LTE Band 26	0.0390	1.000	Pass
802.11n(HT20) + LTE Band 41	0.0499	1.000	Pass
802.11n(HT40) + LTE Band 2	0.1121	1.000	Pass
802.11n(HT40) + LTE Band 4	0.0973	1.000	Pass
802.11n(HT40) + LTE Band 5	0.0175	1.000	Pass
802.11n(HT40) + LTE Band 7	0.0568	1.000	Pass

802.11n(HT40) + LTE Band 12	0.0099	1.000	Pass
802.11n(HT40) + LTE Band 13	0.0143	1.000	Pass
802.11n(HT40) + LTE Band 25	0.1369	1.000	Pass
802.11n(HT40) + LTE Band 26	0.0378	1.000	Pass
802.11n(HT40) + LTE Band 41	0.0487	1.000	Pass
802.11ac(VHT20) + LTE Band 2	0.1133	1.000	Pass
802.11ac(VHT20) + LTE Band 4	0.0985	1.000	Pass
802.11ac(VHT20) + LTE Band 5	0.0187	1.000	Pass
802.11ac(VHT20) + LTE Band 7	0.0580	1.000	Pass
802.11ac(VHT20) + LTE Band 12	0.0111	1.000	Pass
802.11ac(VHT20) + LTE Band 13	0.0155	1.000	Pass
802.11ac(VHT20) + LTE Band 25	0.1381	1.000	Pass
802.11ac(VHT20) + LTE Band 26	0.0390	1.000	Pass
802.11ac(VHT20) + LTE Band 41	0.0499	1.000	Pass
802.11ac(VHT40) + LTE Band 2	0.1121	1.000	Pass
802.11ac(VHT40) + LTE Band 4	0.0973	1.000	Pass
802.11ac(VHT40) + LTE Band 5	0.0175	1.000	Pass
802.11ac(VHT40) + LTE Band 7	0.0568	1.000	Pass
802.11ac(VHT40) + LTE Band 12	0.0099	1.000	Pass
802.11ac(VHT40) + LTE Band 13	0.0143	1.000	Pass
802.11ac(VHT40) + LTE Band 25	0.1369	1.000	Pass
802.11ac(VHT40) + LTE Band 26	0.0378	1.000	Pass
802.11ac(VHT40) + LTE Band 41	0.0487	1.000	Pass
802.11ac(VHT80) + LTE Band 2	0.1121	1.000	Pass
802.11ac(VHT80) + LTE Band 4	0.0973	1.000	Pass
802.11ac(VHT80) + LTE Band 5	0.0175	1.000	Pass
802.11ac(VHT80) + LTE Band 7	0.0568	1.000	Pass
802.11ac(VHT80) + LTE Band 12	0.0099	1.000	Pass
802.11ac(VHT80) + LTE Band 13	0.0143	1.000	Pass
802.11ac(VHT80) + LTE Band 25	0.1369	1.000	Pass
802.11ac(VHT80) + LTE Band 26	0.0378	1.000	Pass
802.11ac(VHT80) + LTE Band 41	0.0487	1.000	Pass

5G WLAN(Band 1)+Radio station			
Mode	$\sum$ MPE ratios	Limit	Results
802.11a + Radio station	0.4026	1.000	Pass
802.11n(HT20) + Radio station	0.4026	1.000	Pass
802.11n(HT40) + Radio station	0.4014	1.000	Pass
802.11ac(VHT20) + Radio station	0.4026	1.000	Pass
802.11ac(VHT40) + Radio station	0.4014	1.000	Pass
802.11ac(VHT80) + Radio station	0.4014	1.000	Pass

5G WLAN(Band 3)+GSM			
Mode	$\sum$ MPE ratios	Limit	Results
802.11a + GSM850	0.1775	1.000	Pass
802.11a + GSM1900	0.4418	1.000	Pass
802.11n(HT20) + GSM850	0.1747	1.000	Pass
802.11n(HT20) + GSM1900	0.4390	1.000	Pass
802.11n(HT40) + GSM850	0.1775	1.000	Pass
802.11n(HT40) + GSM1900	0.4418	1.000	Pass
802.11ac(VHT20) + GSM850	0.1775	1.000	Pass
802.11ac(VHT20) + GSM1900	0.4418	1.000	Pass
802.11ac(VHT40) + GSM850	0.1775	1.000	Pass
802.11ac(VHT40) + GSM1900	0.4418	1.000	Pass
802.11ac(VHT80) + GSM850	0.1747	1.000	Pass
802.11ac(VHT80) + GSM1900	0.4390	1.000	Pass

5G WLAN(Band 3)+WCDMA			
Mode	$\sum$ MPE ratios	Limit	Results
802.11a + WCDMA Band 2	0.0814	1.000	Pass
802.11a + WCDMA Band 4	0.0721	1.000	Pass
802.11a + WCDMA Band 5	0.0200	1.000	Pass
802.11n(HT20) + WCDMA Band 2	0.0786	1.000	Pass
802.11n(HT20) + WCDMA Band 4	0.0693	1.000	Pass
802.11n(HT20) + WCDMA Band 5	0.0172	1.000	Pass
802.11n(HT40) + WCDMA Band 2	0.0814	1.000	Pass
802.11n(HT40) + WCDMA Band 4	0.0721	1.000	Pass
802.11n(HT40) + WCDMA Band 5	0.0200	1.000	Pass
802.11ac(VHT20) + WCDMA Band 2	0.0814	1.000	Pass
802.11ac(VHT20) + WCDMA Band 4	0.0721	1.000	Pass
802.11ac(VHT20) + WCDMA Band 5	0.0200	1.000	Pass
802.11ac(VHT40) + WCDMA Band 2	0.0814	1.000	Pass
802.11ac(VHT40) + WCDMA Band 4	0.0721	1.000	Pass
802.11ac(VHT40) + WCDMA Band 5	0.0200	1.000	Pass
802.11ac(VHT80) + WCDMA Band 2	0.0786	1.000	Pass
802.11ac(VHT80) + WCDMA Band 4	0.0693	1.000	Pass
802.11ac(VHT80) + WCDMA Band 5	0.0172	1.000	Pass

5G WLAN(Band 3)+LTE			
Mode	$\sum$ MPE ratios	Limit	Results
802.11a + LTE Band 2	0.1211	1.000	Pass
802.11a + LTE Band 4	0.1063	1.000	Pass
802.11a + LTE Band 5	0.0265	1.000	Pass
802.11a + LTE Band 7	0.0658	1.000	Pass
802.11a + LTE Band 12	0.0189	1.000	Pass
802.11a + LTE Band 13	0.0233	1.000	Pass
802.11a + LTE Band 25	0.1459	1.000	Pass
802.11a + LTE Band 26	0.0468	1.000	Pass
802.11a + LTE Band 41	0.0577	1.000	Pass
802.11n(HT20) + LTE Band 2	0.1183	1.000	Pass
802.11n(HT20) + LTE Band 4	0.1035	1.000	Pass
802.11n(HT20) + LTE Band 5	0.0237	1.000	Pass
802.11n(HT20) + LTE Band 7	0.0630	1.000	Pass
802.11n(HT20) + LTE Band 12	0.0161	1.000	Pass
802.11n(HT20) + LTE Band 13	0.0205	1.000	Pass
802.11n(HT20) + LTE Band 25	0.1431	1.000	Pass
802.11n(HT20) + LTE Band 26	0.0440	1.000	Pass
802.11n(HT20) + LTE Band 41	0.0549	1.000	Pass
802.11n(HT40) + LTE Band 2	0.1211	1.000	Pass
802.11n(HT40) + LTE Band 4	0.1063	1.000	Pass
802.11n(HT40) + LTE Band 5	0.0265	1.000	Pass
802.11n(HT40) + LTE Band 7	0.0658	1.000	Pass
802.11n(HT40) + LTE Band 12	0.0189	1.000	Pass
802.11n(HT40) + LTE Band 13	0.0233	1.000	Pass
802.11n(HT40) + LTE Band 25	0.1459	1.000	Pass
802.11n(HT40) + LTE Band 26	0.0468	1.000	Pass
802.11n(HT40) + LTE Band 41	0.0577	1.000	Pass
802.11ac(VHT20) + LTE Band 2	0.1211	1.000	Pass
802.11ac(VHT20) + LTE Band 4	0.1063	1.000	Pass
802.11ac(VHT20) + LTE Band 5	0.0265	1.000	Pass
802.11ac(VHT20) + LTE Band 7	0.0658	1.000	Pass
802.11ac(VHT20) + LTE Band 12	0.0189	1.000	Pass
802.11ac(VHT20) + LTE Band 13	0.0233	1.000	Pass
802.11ac(VHT20) + LTE Band 25	0.1459	1.000	Pass
802.11ac(VHT20) + LTE Band 26	0.0468	1.000	Pass
802.11ac(VHT20) + LTE Band 41	0.0577	1.000	Pass
802.11ac(VHT40) + LTE Band 2	0.1211	1.000	Pass
802.11ac(VHT40) + LTE Band 4	0.1063	1.000	Pass

802.11ac(VHT40) + LTE Band 5	0.0265	1.000	Pass
802.11ac(VHT40) + LTE Band 7	0.0658	1.000	Pass
802.11ac(VHT40) + LTE Band 12	0.0189	1.000	Pass
802.11ac(VHT40) + LTE Band 13	0.0233	1.000	Pass
802.11ac(VHT40) + LTE Band 25	0.1459	1.000	Pass
802.11ac(VHT40) + LTE Band 26	0.0468	1.000	Pass
802.11ac(VHT40) + LTE Band 41	0.0577	1.000	Pass
802.11ac(VHT80) + LTE Band 2	0.1183	1.000	Pass
802.11ac(VHT80) + LTE Band 4	0.1035	1.000	Pass
802.11ac(VHT80) + LTE Band 5	0.0237	1.000	Pass
802.11ac(VHT80) + LTE Band 7	0.0630	1.000	Pass
802.11ac(VHT80) + LTE Band 12	0.0161	1.000	Pass
802.11ac(VHT80) + LTE Band 13	0.0205	1.000	Pass
802.11ac(VHT80) + LTE Band 25	0.1431	1.000	Pass
802.11ac(VHT80) + LTE Band 26	0.0440	1.000	Pass
802.11ac(VHT80) + LTE Band 41	0.0549	1.000	Pass

5G WLAN(Band 3)+Radio station			
Mode	$\sum$ MPE ratios	Limit	Results
802.11a + Radio station	0.4104	1.000	Pass
802.11n(HT20) + Radio station	0.4076	1.000	Pass
802.11n(HT40) + Radio station	0.4104	1.000	Pass
802.11ac(VHT20) + Radio station	0.4104	1.000	Pass
802.11ac(VHT40) + Radio station	0.4104	1.000	Pass
802.11ac(VHT80) + Radio station	0.4076	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.

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