

RF Exposure Evaluation
FOR
SingularXYZ Intelligent Technology Ltd.
GNSS Receiver
Test Model: Horus
Additional Model No.: Horus Lite, VL2, VL2 Pro

Prepared for	:	SingularXYZ Intelligent Technology Ltd.
Address	:	Floor 2, Building A, No. 599 Gaojing Road, Shanghai, China
Prepared by	:	Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	May 27, 2026
Number of tested samples	:	2
Sample No.	:	C260525006-1, C260525006-2
Serial number	:	Prototype
Date of Test	:	May 27, 2026 ~ July 20, 2026
Date of Report	:	July 21, 2026

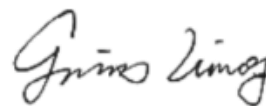
RF Exposure Evaluation

Report Reference No. : LCSC05256008EH
Date of Issue..... : July 21, 2026
Testing Laboratory Name : Guangzhou LCS Compliance Testing Laboratory Ltd.
Address..... : No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China
Testing Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □
Applicant's Name : SingularXYZ Intelligent Technology Ltd.
Address..... : Floor 2, Building A, No. 599 Gaojing Road, Shanghai, China
Test Specification
Standard : FCC KDB publication 447498 D01 General RF Exposure Guidance v06
FCC CFR 47 part1 1.1310
FCC CFR 47 part2 2.1091
Test Report Form No..... : TRF-4-E-214 A/0
TRF Originator : Guangzhou LCS Compliance Testing Laboratory Ltd.
Master TRF : Dated 2011-03
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Test Item Description..... : GNSS Receiver
Trade Mark : SingularXYZ
Test Model..... : Horus
Ratings..... : Please Refer to Page 6
Result : Pass
Compiled by:

Lifeng Le/ Administrators
Supervised by:

Justin Zhu/ Technique Director
Approved by:

Gavin Liang/ Manager

RF Exposure Evaluation

Test Report No. : LCSC05256008EH	<u>July 21, 2026</u> Date of issue
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Test	: Horus
EUT.....	: GNSS Receiver
Applicant.....	: SingularXYZ Intelligent Technology Ltd.
Address.....	: Floor 2, Building A, No. 599 Gaojing Road, Shanghai, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: SingularXYZ Intelligent Technology Ltd.
Address.....	: Floor 2, Building A, No. 599 Gaojing Road, Shanghai, China
Telephone.....	: /
Fax.....	: /
Factory.....	: SingularXYZ Intelligent Technology Ltd.
Address.....	: Floor 2, Building A, No. 599 Gaojing Road, Shanghai, 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	July 21, 2026	Initial Issue	---

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1. Product Information

EUT	: GNSS Receiver
Test Model	: Horus
Additional Model No.	: Horus Lite, VL2, VL2 Pro
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: Input: DC 5-15V Nominal Voltage:7.2V Nominal Capacity:6.9Ah/49.68Wh Rated Capacity:6.3Ah/45.36Wh
Hardware Version	: V1.2
Software Version	: 1.0.A035
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V4.1 (DSS)
Channel Spacing	: 1MHz for Bluetooth V4.1 (DSS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V4.1 (DSS)
Bluetooth Version	: V4.1
Antenna Description	: Internal Antenna, 2.24dBi(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, 2.24dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5150MHz~5250MHz
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, 1.48dBi(Max.)
WIFI(5.3G Band)	:
Frequency Range	: 5250MHz~5350MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5260MHz~5320MHz) 2 channels for 40MHz bandwidth(5270MHz~5310MHz) 1 channels for 80MHz bandwidth(5290MHz)
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, 1.48dBi(Max.)
WIFI(5.5G Band)	:
Frequency Range	: 5470MHz~5725MHz
Channel Number	: 11 Channels for 20MHz bandwidth(5500MHz~5700MHz) 5 Channels for 40MHz bandwidth(5510MHz~5670MHz)

	2 Channels for 80MHz bandwidth(5530MHz, 5610MHz)
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, 1.48dBi(Max.)
WIFI(5.8G Band)	:
Frequency Range	: 5725MHz~5850MHz
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, 1.48dBi(Max.)
PMR	:
Operating Frequency	: 410~470MHz
Channel Separation	: 12.5KHz
Modulation Type	: GMSK
Emission Designator	: 7K60G1D for GMSK Modulation at 12.5KHz Channel Separation
Antenna Type	: External Antenna
Antenna Gain	: 1.21dBi(max.) for PMR
GPS Function	: Support and only RX
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	: Mobile Device

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

[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	-1.82
	39	2441	0.75
	78	2480	-0.09
$\pi/4$ -DQPSK	0	2402	-2.58
	39	2441	0.09
	78	2480	-0.74
8DPSK	0	2402	-2.11
	39	2441	0.56
	78	2480	-0.35

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
11B	1	2412	14.77
	6	2437	13.91
	11	2462	13.43
11G	1	2412	14.39
	6	2437	13.82
	11	2462	13.7
11N20 SISO	1	2412	13.68
	6	2437	12.84
	11	2462	13.74
11N40 SISO	3	2422	13.04
	6	2437	12.9
	9	2452	13.27

[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	36	5180	18.99
	40	5200	19.06
	48	5240	19.58
11N20 SISO	36	5180	18.51
	40	5200	18.76
	48	5240	19.1
11N40 SISO	38	5190	16.79
	46	5230	17.25
11AC20 SISO	36	5180	18.77
	40	5200	19.23
	48	5240	19.2
11AC40 SISO	38	5190	16.97
	46	5230	17.0
11AC80 SISO	42	5210	16.42

[5.3G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	52	5260	18.41
	60	5280	18.32
	64	5320	17.79
11N20 SISO	52	5260	18.28
	60	5280	18.68
	64	5320	18.35
11N40 SISO	54	5270	17.45
	62	5310	16.93
11AC20 SISO	52	5260	17.73
	60	5280	17.2
	64	5320	16.82
11AC40 SISO	54	5270	17.96
	62	5310	16.92
11AC80 SISO	58	5290	17.83

[5.5G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	100	5500	18.14
	116	5580	18.6
	140	5700	17.31
11N20 SISO	100	5500	17.96
	116	5580	18.14
	140	5700	16.94
11N40 SISO	102	5510	17.27
	110	5550	18.13

	134	5670	17.36
11AC20 SISO	100	5500	17.82
	116	5580	18.11
	140	5700	16.98
11AC40 SISO	102	5510	17.89
	110	5550	18.08
	134	5670	17.24
11AC80 SISO	106	5530	17.23
	122	5610	17.72

[5.8G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	149	5745	17.41
	157	5785	17.71
	165	5825	17.48
11N20 SISO	149	5745	18.47
	157	5785	18.42
	165	5825	18.32
11N40 SISO	151	5755	16.42
	159	5795	16.51
11AC20 SISO	149	5745	18.56
	157	5785	18.83
	165	5825	18.3
11AC40 SISO	151	5755	16.72
	159	5795	16.48
11AC80 SISO	155	5775	16.11

<PMR>

Test Mode		Frequency(MHz)	Max Conducted Peak Power(dBm)	Tune Up Power (dBm)
GMSK	12.5KHz	410.125	32.269	32.0±1.0
		439.625	32.201	32.0±1.0
		469.625	32.269	32.0±1.0

6. Manufacturing Tolerance

[BT]

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-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)	-2.0	0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-2.0	0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[2.4G WIFI]

11B (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	14.0	13.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	14.0	13.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	13.0	12.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	13.0	12.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[5.2G WIFI]

11A (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	18.0	19.0	19.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	18.0	18.0	19.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	16.0	17.0	

Tolerance $\pm$ (dB)	1.0	1.0
11AC20 (Average)		
Channel	Channel 36	Channel 40
Target (dBm)	18.0	19.0
Tolerance $\pm$ (dB)	1.0	1.0
11AC40 (Average)		
Channel	Channel 38	Channel 46
Target (dBm)	16.0	17.0
Tolerance $\pm$ (dB)	1.0	1.0
11AC80 (Average)		
Channel	Channel 42	
Target (dBm)	16.0	
Tolerance $\pm$ (dB)	1.0	

[5.3G WIFI]

11A (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	18.0	18.0	17.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N HT20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	18.0	18.0	18.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N HT40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	17.0	16.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC VHT20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	17.0	17.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC VHT40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	17.0	16.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC VHT80 (Average)			
Channel	Channel 58		
Target (dBm)	17.0		
Tolerance $\pm$ (dB)	1.0		

[5.5G WIFI]

11A (Average)			
Channel	Channel 100	Channel 116	Channel 140

Target (dBm)	18.0	18.0	17.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N HT20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	17.0	18.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N HT40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	17.0	18.0	17.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC VHT20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	17.0	18.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC HT40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	17.0	18.0	17.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC VHT80 (Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	17.0	17.0	
Tolerance $\pm$ (dB)	1.0	1.0	

[5.8G WIFI]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	17.0	17.0	17.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	18.0	18.0	18.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	16.0	16.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	18.0	18.0	18.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11AC40 (Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	16.0	16.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11AC80 (Average)			

Channel	Channel 155
Target (dBm)	16.0
Tolerance $\pm$ (dB)	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 ratios1
	dBm	mW					
GFSK	1.0	1.2589	2.24	1.6749	0.0001	1.0000	0.0001
$\pi/4$ -DQPSK	1.0	1.2589	2.24	1.6749	0.0001	1.0000	0.0001
8-DPSK	1.0	1.2589	2.24	1.6749	0.0001	1.0000	0.0001

[2.4G WIFI]

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	15.0	31.6228	2.24	1.6749	0.0017	1.0000	0.0017
IEEE 802.11g	15.0	31.6228	2.24	1.6749	0.0017	1.0000	0.0017
IEEE 802.11n HT20	14.0	25.1189	2.24	1.6749	0.0013	1.0000	0.0013
IEEE 802.11n HT40	14.0	25.1189	2.24	1.6749	0.0013	1.0000	0.0013

[5.2G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
IEEE 802.11a	20.0	100.0000	1.48	1.4060	0.0045	1.0000	0.0045
IEEE 802.11n HT20	20.0	100.0000	1.48	1.4060	0.0045	1.0000	0.0045
IEEE 802.11n HT40	18.0	63.0957	1.48	1.4060	0.0028	1.0000	0.0028
IEEE 802.11ac VHT20	20.0	100.0000	1.48	1.4060	0.0045	1.0000	0.0045
IEEE 802.11ac VHT40	18.0	63.0957	1.48	1.4060	0.0028	1.0000	0.0028
IEEE 802.11ac VHT80	17.0	50.1187	1.48	1.4060	0.0022	1.0000	0.0022

[5.3G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
IEEE 802.11a	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036
IEEE 802.11n HT20	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036
IEEE 802.11n HT40	18.0	63.0957	1.48	1.4060	0.0028	1.0000	0.0028
IEEE 802.11ac VHT20	18.0	63.0957	1.48	1.4060	0.0028	1.0000	0.0028
IEEE 802.11ac VHT40	18.0	63.0957	1.48	1.4060	0.0028	1.0000	0.0028
IEEE 802.11ac VHT80	18.0	63.0957	1.48	1.4060	0.0028	1.0000	0.0028

[5.5G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
IEEE 802.11a	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036
IEEE 802.11n HT20	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036
IEEE 802.11n HT40	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036
IEEE 802.11ac VHT20	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036

IEEE 802.11ac VHT40	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036
IEEE 802.11ac VHT80	18.0	63.0957	1.48	1.4060	0.0028	1.0000	0.0028

[5.8G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
IEEE 802.11a	18.0	63.0957	1.48	1.4060	0.0028	1.0000	0.0028
IEEE 802.11n HT20	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036
IEEE 802.11n HT40	17.0	50.1187	1.48	1.4060	0.0022	1.0000	0.0022
IEEE 802.11ac VHT20	19.0	79.4328	1.48	1.4060	0.0036	1.0000	0.0036
IEEE 802.11ac VHT40	17.0	50.1187	1.48	1.4060	0.0022	1.0000	0.0022
IEEE 802.11ac VHT80	17.0	50.1187	1.48	1.4060	0.0022	1.0000	0.0022

<PMR>

Band/Mode	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios2
	dBm	mW					
GMSK	33	1995.2623	1.21	1.3213	0.0839	0.2734	0.3069

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjusted 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.

7.2 Simultaneous Transmission MPE Evaluation

The sample support one BT, 2.4GWLAN and 5G WLAN, another one PMR, so need consider simultaneous transmission;

Simultaneous transmission MPE

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

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

$\sum \text{of MPE ratios} \leq 1.0$

Max MPE ratios1	Max MPE ratios2	$\sum$ MPE ratios	Limit	Results
0.0045	0.3069	0.3114	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& 2.4GWLAN&5.2GWLAN&5.3GWLAN&5.5GWLAN&5.8GWLAN&PMR:

Test Item	Frequency Range	Uncertainty	Note
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Output power	:	1GHz-40GHz	$\pm 0.57\text{dB}$	(1)
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(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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