



RF Exposure Evaluation

FOR

South Surveying & Mapping Technology Co., Ltd.

GNSS RECEIVER

Test Model: G7Q

Prepared for : South Surveying & Mapping Technology Co., Ltd.
Address : No.39, Sicheng Road, Tianhe District, Guangzhou

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
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Date of receipt of test sample : March 19, 2026
Number of tested samples : 2
Sample No. : A260312033-1, A260312033-2
Serial number : Prototype
Date of Test : March 19, 2026 ~ April 16, 2026
Date of Report : April 17, 2026



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**RF Exposure Evaluation****Report Reference No. : LCSA03186075EK**

Date of Issue..... : April 17, 2026

Testing Laboratory Name : Shenzhen LCS Compliance Testing Laboratory Ltd.Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
Shajing Street, Baoan District, Shenzhen, 518000, ChinaTesting Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name : South Surveying & Mapping Technology Co., Ltd.**

Address..... : No.39, Sicheng Road, Tianhe District, Guangzhou

Test SpecificationStandard : 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..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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Test Item Description..... : GNSS RECEIVER

Trade Mark : SOUTH, KOLIDA, RUIDE, SANDING, TIANYU

Test Model..... : G7Q

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

Result : Pass**Compiled by:**

Vera Deng/ Administrator

Reviewed by:

Kevin Huang/ RF Manager

Approved by:

Gavin Liang/ Manager



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RF Exposure Evaluation

Test Report No. : LCSA03186075EK	<u>April 17, 2026</u> Date of issue
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Test Model.....	: G7Q
EUT.....	: GNSS RECEIVER
Applicant.....	: South Surveying & Mapping Technology Co., Ltd.
Address.....	: No.39, Sicheng Road, Tianhe District, Guangzhou
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: South Surveying & Mapping Technology Co., Ltd.
Address.....	: No.39, Sicheng Road, Tianhe District, Guangzhou
Telephone.....	: /
Fax.....	: /
Factory.....	: South Surveying & Mapping Technology Co., Ltd.
Address.....	: No.39, Sicheng Road, Tianhe District, Guangzhou
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.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	April 17, 2026	Initial Issue	---





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1. Product Information

EUT	: GNSS RECEIVER
Test Model	: G7Q
Ratings	: Input: 7.4V==6800mAh
Hardware Version	: 00X0CY0N0000008003135G048913
Software Version	: 1.09.260226.RG60PY
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V4.2 (DSS) 40 channels for Bluetooth V4.2 (DTS)
Channel Spacing	: 1MHz for Bluetooth V4.2 (DSS) 2MHz for Bluetooth V4.2 (DTS)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V4.2 (DSS) GFSK for Bluetooth V4.2 (DTS)
Bluetooth Version	: V4.2
Antenna Description	: Internal Antenna, 2.7dBi(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, 2.7dBi(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)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Internal Antenna, 1.95dBi(Max.)
WIFI(5.3G Band)	:
Frequency Range	: 5260MHz~5320MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5260MHz~5320MHz) 2 channels for 40MHz bandwidth(5270MHz~5310MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Internal Antenna, 1.95dBi(Max.)
WIFI(5.5G Band)	:
Frequency Range	: 5500MHz~5700MHz
Channel Number	: 11 Channels for 20MHz bandwidth(5500MHz~5700MHz) 5 Channels for 40MHz bandwidth(5510MHz~5670MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Internal Antenna, 1.95dBi(Max.)
2G	:
Support Band	: ☒ GSM 850 (U.S.-Band) ☒ PCS 1900 (U.S.-Band)
Release Version	: R99
GPRS Class	: Class 12
EGPRS Class	: Class 12



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Type Of Modulation : GMSK for GSM/GPRS; GMSK/8PSK for EGPRS
Antenna Description : Internal Antenna
0.63dBi (max.) For GSM 850
1.54dBi (max.) For PCS 1900

3G

Support Band : ☒ WCDMA Band V (U.S.-Band)
Release Version : R9&R6
Type Of Modulation : QPSK/16QAM
Antenna Description : Internal Antenna
0.63dBi (max.) For WCDMA Band V

LTE

Support Band : ☒ E-UTRA Band 5(U.S.-Band)
☒ E-UTRA Band 7(U.S.-Band)
☒ E-UTRA Band 38(U.S.-Band)
LTE Release Version : R9
Type Of Modulation : QPSK/16QAM
Antenna Description : Internal Antenna
0.63dBi (max.) For E-UTRA Band 5
1.78dBi (max.) For E-UTRA Band 7
1.78dBi (max.) For E-UTRA Band 38
Power Class : Class 3

NFC

Operating Frequency : 13.56MHz
Modulation Type : ASK
Antenna Description : Internal Antenna
GPS Function : Support and only RX
RFID Function :

Frequency Range : 902.4 – 927.65 MHz at 172800 kbps data rate
902.4 – 927.60 MHz at 230400 kbps and 276480 kbps data rates

Modulation Type : GFSK
Antenna Description : UFL, 3.0dBi(Max.)
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.



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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



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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	-1.22
	39	2441	1.49
	78	2480	0.48
$\pi/4$ DQPSK	0	2402	0.59
	39	2441	3.18
	78	2480	2.27
8DPSK	0	2402	0.99
	39	2441	3.53
	78	2480	2.55

[BLE]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BLE 1M	0	2402	-3.58
	19	2440	-0.76
	39	2480	-1.69

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
11B	1	2412	14.18
	6	2437	13.55
	11	2462	13.14
11G	1	2412	12.46
	6	2437	11.76
	11	2462	11.55
11N20 SISO	1	2412	11.69
	6	2437	11
	11	2462	10.76
11N40 SISO	3	2422	11.06
	6	2437	10.04
	9	2452	10.68



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[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	36	5180	11.48
	40	5200	11.54
	48	5240	11.53
11N20 SISO	36	5180	11.93
	40	5200	11.88
	48	5240	11.74
11N40 SISO	38	5190	11.01
	46	5230	10.89

[5.3G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	52	5260	11.53
	60	5280	11.55
	64	5320	11.33
11N20 SISO	52	5260	11.84
	60	5280	11.87
	64	5320	11.7
11N40 SISO	54	5270	11
	62	5310	10.89

[5.5G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11A	100	5500	11.81
	116	5580	11.2
	140	5700	10.7
11N20 SISO	100	5500	11.77
	116	5580	11.74
	140	5700	11.1
11N40 SISO	102	5510	9.99
	110	5550	11.81
	134	5670	11.38

Test Procedure

TX frequency range: 13.56MHz, Limit: $824/13.56=60.77\text{V/m}$
Device category: Mobile device (Distance: 20cm)
Max. Field Strength: 44.24dBuV/m @3m
 $\text{@23cm}=\text{@3m}+40*\log(3/0.23)=88.86\text{dBuV/m}$
For 13.56MHz: $88.86\text{dBuV/m}=10^{\frac{88.86}{20}}(88.86/23)/10^6=0.0067\text{V/m}< \dots\dots\dots \text{V/m}$





6. Manufacturing Tolerance

[BT]

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	-1.0	1.0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ -DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	0	3.0	2.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	0	3.0	2.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[BLE1M]

BT LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-3.0	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)	14.0	13.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	12.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	11.0	11.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	11.0	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0



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[5.2G WIFI]

11A (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	11.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	

[5.3G WIFI]

11A (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N HT20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N HT40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	11.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	



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[5.5G WIFI]

11A (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	11.0	11.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N HT20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N HT40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	9.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[GSM Max Average Power]

Test Mode	Channel	Frequency (MHz)	Max Average Power (dBm)	ANT Max. Tune Up Power (dBm)
GSM 850	LCH	824.2	32.39	32.0 $\pm$ 1.0
	MCH	836.6	32.38	32.0 $\pm$ 1.0
	HCH	848.8	32.42	32.0 $\pm$ 1.0
PCS 1900	LCH	1850.2	29.46	29.0 $\pm$ 1.0
	MCH	1880.0	29.45	29.0 $\pm$ 1.0
	HCH	1909.8	29.43	29.0 $\pm$ 1.0

[WCDMA Max Average Power]

Test Mode	Channel	Frequency (MHz)	Max Average Power (dBm)	ANT Max. Tune Up Power (dBm)
WCDMA Band V	Low	826.4	23.31	23.0 $\pm$ 1.0
	Middle	836.4	23.42	23.0 $\pm$ 1.0
	High	846.6	23.33	23.0 $\pm$ 1.0

[LTE Max Average Power]

Test Mode		Channel	Max Average Power (dBm)	ANT Max. Tune Up Power (dBm)
LTE	Band 5	LCH	24.02	24.0 $\pm$ 1.0
		MCH	24.03	24.0 $\pm$ 1.0
		HCH	24.18	24.0 $\pm$ 1.0
	Band 7	LCH	22.49	22.0 $\pm$ 1.0
		MCH	22.64	22.0 $\pm$ 1.0
		HCH	22.34	22.0 $\pm$ 1.0
	Band 38	LCH	22.65	22.0 $\pm$ 1.0
		MCH	22.75	22.0 $\pm$ 1.0
		HCH	22.54	22.0 $\pm$ 1.0



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<According to RFID modular power (FCC ID: NS913P900) >

Test Mode	Software Power Setting	Data Rate (kbps)	Channel	Peak Output Power at Antenna Terminal (dBm)	Max. Tune Up Power (dBm)
High Power (30 dBm)	28	172800	902.40	29.98	30
			914.90	29.98	30
			927.65	29.98	30
		230400	902.40	29.98	30
			915.00	29.98	30
			927.60	29.98	30
		276480	902.40	29.98	30
			915.00	29.98	30
			927.60	29.98	30
Low Power (10 dBm)	8	172800	902.40	9.9	10
	5		914.90	9.9	10
			927.65	9.9	10
	8	230400	902.40	9.9	10
	5		915.00	9.9	10
			927.60	9.9	10
	8	276480	902.40	9.9	10
			915.00	9.9	10
	5		927.60	9.9	10

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 23 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=23\text{cm}$, 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	2.7	1.8621	0.00044	1.0000	0.0004
$\pi/4$ -DQPSK	4.0	2.5119	2.7	1.8621	0.00071	1.0000	0.0007
8-DPSK	4.0	2.5119	2.7	1.8621	0.00071	1.0000	0.0007

[BLE1M]

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	1.0	1.2589	2.7	1.8621	0.00035	1.0000	0.0004

[2.4G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios ¹
	dBm	mW					
IEEE 802.11b	15.0	31.6228	2.7	1.8621	0.0089	1.0000	0.0089
IEEE 802.11g	13.0	19.9526	2.7	1.8621	0.0056	1.0000	0.0056
IEEE 802.11n HT20	12.0	15.8489	2.7	1.8621	0.0044	1.0000	0.0044
IEEE 802.11n HT40	12.0	15.8489	2.7	1.8621	0.0044	1.0000	0.0044



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[5.2G WIFI]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios ¹
	dBm	mW					
IEEE 802.11a	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037
IEEE 802.11n HT20	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037
IEEE 802.11n HT40	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037

[5.3G WIFI]

Band/Mode	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios ¹
	dBm	mW					
IEEE 802.11a	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037
IEEE 802.11n HT20	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037
IEEE 802.11n HT40	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037

[5.5G WIFI]

Band/Mode	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios ¹
	dBm	mW					
IEEE 802.11a	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037
IEEE 802.11n HT20	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037
IEEE 802.11n HT40	12.0	15.8489	1.95	1.5668	0.0037	1.0000	0.0037

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios ²
	dBm	mW					
GSM 850	23.97	249.4595	0.63	1.1561	0.0434	0.5493	0.0790
PCS 1900	20.97	125.0259	1.54	1.4256	0.0268	1.0000	0.0268
WCDMA Band V	24	251.1886	0.63	1.1561	0.0437	0.5493	0.0796
LTE Band 5	25	316.2278	0.63	1.1561	0.0550	0.5493	0.1002
LTE Band 7	23	199.5262	1.78	1.5066	0.0452	1.0000	0.0452
LTE Band 38	23	199.5262	1.78	1.5066	0.0452	1.0000	0.0452



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<According to RFID modular power (FCC ID: NS913P900) >

Test Mode	Software Power Setting	Data Rate (kbps)	Channel	Max Average Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios ²
High Power (30 dBm)	28	172800	902.40	30	3.0	1.9953	0.3001	0.6016	0.4988
			914.90	30	3.0	1.9953	0.3001	0.6016	0.4988
			927.65	30	3.0	1.9953	0.3001	0.6016	0.4988
		230400	902.40	30	3.0	1.9953	0.3001	0.6016	0.4988
			915.00	30	3.0	1.9953	0.3001	0.6016	0.4988
			927.60	30	3.0	1.9953	0.3001	0.6016	0.4988
		276480	902.40	30	3.0	1.9953	0.3001	0.6016	0.4988
			915.00	30	3.0	1.9953	0.3001	0.6016	0.4988
			927.60	30	3.0	1.9953	0.3001	0.6016	0.4988
Low Power (10 dBm)	8	172800	902.40	10	3.0	1.9953	0.0030	0.6016	0.0050
			914.90	10	3.0	1.9953	0.0030	0.6016	0.0050
			927.65	10	3.0	1.9953	0.0030	0.6016	0.0050
	5	230400	902.40	10	3.0	1.9953	0.0030	0.6016	0.0050
			915.00	10	3.0	1.9953	0.0030	0.6016	0.0050
			927.60	10	3.0	1.9953	0.0030	0.6016	0.0050
	8	276480	902.40	10	3.0	1.9953	0.0030	0.6016	0.0050
			915.00	10	3.0	1.9953	0.0030	0.6016	0.0050
			927.60	10	3.0	1.9953	0.0030	0.6016	0.0050

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 23cm 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&2.4GWLAN&5.2G WLAN&5.3G WLAN &5.5G WLAN, another one NFC antenna and another one GSM&WCDMA<E 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 _{NFC} ratios ¹	Max MPE _{WLAN} ratios ²	Max MPE _{900MHz} ratios ³	Max MPE _{LTE} ratios ⁴	$\sum$ MPE ratios	Limit	Results
0.00011	0.0089	0.4988	0.1002	0.60801	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

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.



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10.Measurement Uncertainty

BT&BLE&2.4GWLAN&5.2GWLAN&5.3GWLAN&5.5GWLAN&GSM/WCDMA/LTE/NFC:

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

