



RF Exposure Evaluation

FOR

Shenzhen Omni Intelligent Technology Co., Ltd.

Wireless Charging & Docking Station

Test Model: M531CDZ

Prepared for : Shenzhen Omni Intelligent Technology Co., Ltd.
Address : 11th Floor, Building 31, Lianchuang Tech park, No.21 Bulan road,
Longgang District, Shenzhen, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : August 14, 2025
Number of tested samples : 2
Sample No. : A250728066-1, A250728066-2
Serial number : Prototype
Date of Test : August 14, 2025 ~ December 19, 2025
Date of Report : December 22, 2025



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**RF Exposure Evaluation****Report Reference No.** : LCSA07285172ED**Date of Issue** : December 22, 2025**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, China**Testing Location/ Procedure** : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name** : Shenzhen Omni Intelligent Technology Co., Ltd.**Address** : 11th Floor, Building 31, Lianchuang Tech park, No.21 Bulan road, Longgang District, Shenzhen, 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** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF** : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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Test Item Description : Wireless Charging & Docking Station**Trade Mark** : OMNI**Test Model** : M531CDZ**Ratings** : Please Refer to Page 6**Result** : Pass**Compiled by:**

Martin Lee/ Administrator

Supervised by:

Jack Liu/ Technique principal

Approved by:

Gavin Liang/ Manager



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RF Exposure Evaluation

Test Report No. : LCSA07285172ED	<u>December 22, 2025</u> Date of issue
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Test Model.....	: M531CDZ
EUT.....	: Wireless Charging & Docking Station
Applicant.....	: Shenzhen Omni Intelligent Technology Co., Ltd.
Address.....	: 11th Floor, Building 31, Lianchuang Tech park, No.21 Bulan road, Longgang District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Shenzhen Omni Intelligent Technology Co., Ltd.
Address.....	: 11th Floor, Building 31, Lianchuang Tech park, No.21 Bulan road, Longgang District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Factory.....	: Shenzhen Omni Intelligent Technology Co., Ltd.
Address.....	: 11th Floor, Building 31, Lianchuang Tech park, No.21 Bulan road, Longgang District, Shenzhen, 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.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	December 22, 2025	Initial Issue	---





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1. Product Information

EUT	: Wireless Charging & Docking Station
Test Model	: M531CDZ
Ratings	: Input:100-240V~, 50/60Hz, 4A Output: 48V---7.29A
Hardware Version	: V0.2
Software Version	: V1.0.5
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	: 2MHz for Bluetooth V5.0 (DTS)
Modulation Type	: GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	: V5.0
Antenna Description	: PCB Antenna 1, 0.8dBi(Max.) PCB Antenna 2, 0.7dBi(Max.) PCB Antenna 3, 0.7dBi(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
Type Of Modulation	: GMSK for GSM/GPRS; GMSK/8PSK for EGPRS
Antenna Description	: Internal Antenna 0.6dBi (max.) For GSM 850 1.25dBi (max.) For PCS 1900
LTE	:
Support Band	: E-UTRA Band 1(Non U.S.-Band) E-UTRA Band 2(U.S.-Band) E-UTRA Band 3(Non U.S.-Band) E-UTRA Band 4(U.S.-Band) E-UTRA Band 5(U.S.-Band) E-UTRA Band 8(Non U.S.-Band) E-UTRA Band 12(U.S.-Band) E-UTRA Band 13(U.S.-Band) E-UTRA Band 18(Non U.S.-Band) E-UTRA Band 19(Non U.S.-Band) E-UTRA Band 20(Non U.S.-Band) E-UTRA Band 25(U.S.-Band) E-UTRA Band 26(U.S.-Band) E-UTRA Band 27(Non U.S.-Band) E-UTRA Band 28(Non U.S.-Band) E-UTRA Band 66(U.S.-Band) E-UTRA Band 85(Non U.S.-Band)
LTE Release Version	: R9



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Type Of Modulation	: QPSK/16QAM
Antenna Description	: Internal Antenna 1.25dBi (max.) For E-UTRA Band 2 1.86dBi (max.) For E-UTRA Band 4 0.6dBi (max.) For E-UTRA Band 5 0.9dBi (max.) For E-UTRA Band 12 1.1dBi (max.) For E-UTRA Band 13 1.07dBi (max.) For E-UTRA Band 25 1.21dBi (max.) For E-UTRA Band 26 1.31dBi (max.) For E-UTRA Band 66
Power Class	: Class 3
Wireless Charging	
Operating Frequency	: 110-205KHz
Modulation Type	: ASK
Antenna Type	: Coil Antenna
Maximum Rated Power of WPT	: 120W
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.



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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

[BLE Ant1]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BLE 1M	0	2402	0.9
	19	2440	0.34
	39	2480	-0.68
BLE 2M	0	2402	1.42
	19	2440	0.18
	39	2480	-0.9

[BLE Ant2]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BLE 1M	0	2402	-1.18
	19	2440	1.13
	39	2480	0.64
BLE 2M	0	2402	-1.33
	19	2440	0.95
	39	2480	0.48



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[BLE Ant3]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BLE 1M	0	2402	-1.17
	19	2440	1.06
	39	2480	0.53
BLE 2M	0	2402	-1.29
	19	2440	0.88
	39	2480	0.42

[GSM Max Average Power]

Test Mode	Channel	Frequency (MHz)	Max Average Power (dBm)
GSM 850	LCH	824.2	32.40
	MCH	836.6	32.41
	HCH	848.8	32.40
PCS 1900	LCH	1850.2	29.43
	MCH	1880.0	29.46
	HCH	1909.8	29.45

[LTE Max Average Power]

Test Mode		Channel	Max Average Power (dBm)
LTE	Band 2	LCH	22.35
		MCH	22.67
		HCH	23.31
	Band 4	LCH	23.15
		MCH	23.17
		HCH	23.2
	Band 5	LCH	23.81
		MCH	23.59
		HCH	23.7
	Band 12	LCH	23.79
		MCH	23.87
		HCH	23.6
	Band 13	LCH	24.26
		MCH	23.89
		HCH	23.97
	Band 25	LCH	25.16
		MCH	24.8
		HCH	24.07
	Band 26-1	LCH	23.44
		MCH	23.66
		HCH	23.41
	Band 26-2	LCH	22.7
		MCH	22.98
		HCH	22.99



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	Band 66	LCH	23.46
		MCH	23.08
		HCH	23.38

6. Manufacturing Tolerance

[BLE 1M Ant1]

GFSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	0	0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[BLE 2M Ant1]

GFSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	1.0	0	0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[BLE 1M Ant2]

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

[BLE 2M Ant2]

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

[BLE 1M Ant3]

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

[BLE 2M Ant3]

GFSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-1.0	0	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	32.40	32.0±1.0
	MCH	836.6	32.41	32.0±1.0
	HCH	848.8	32.40	32.0±1.0
PCS 1900	LCH	1850.2	29.43	29.0±1.0
	MCH	1880.0	29.46	29.0±1.0
	HCH	1909.8	29.45	29.0±1.0

[LTE Max Average Power]

Test Mode		Channel	Max Average Power (dBm)	ANT Max. Tune Up Power (dBm)
LTE	Band 2	LCH	22.35	22.0±1.0
		MCH	22.67	22.0±1.0
		HCH	23.31	23.0±1.0
	Band 4	LCH	23.15	23.0±1.0
		MCH	23.17	23.0±1.0
		HCH	23.2	23.0±1.0
	Band 5	LCH	23.81	23.0±1.0
		MCH	23.59	23.0±1.0
		HCH	23.7	23.0±1.0
	Band 12	LCH	23.79	23.0±1.0
		MCH	23.87	23.0±1.0
		HCH	23.6	23.0±1.0
	Band 13	LCH	24.26	24.0±1.0
		MCH	23.89	23.0±1.0
		HCH	23.97	23.0±1.0
	Band 25	LCH	25.16	25.0±1.0
		MCH	24.8	24.0±1.0
		HCH	24.07	24.0±1.0
	Band 26-1	LCH	23.44	23.0±1.0
		MCH	23.66	23.0±1.0
		HCH	23.41	23.0±1.0
	Band 26-2	LCH	22.7	22.0±1.0
		MCH	22.98	22.0±1.0
		HCH	22.99	22.0±1.0
	Band 66	LCH	23.46	23.0±1.0
		MCH	23.08	23.0±1.0
		HCH	23.38	23.0±1.0



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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 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.

[BLE Ant1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios1
	dBm	mW					
BLE 1M	1.0	1.2589	0.8	1.2023	0.0003	1.0000	0.0003
BLE 2M	2.0	1.5849	0.8	1.2023	0.0004	1.0000	0.0004

[BLE Ant2]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios2
	dBm	mW					
BLE 1M	2.0	1.5849	0.7	1.1749	0.0004	1.0000	0.0004
BLE 2M	1.0	1.2589	0.7	1.1749	0.0003	1.0000	0.0003

[BLE Ant3]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios3
	dBm	mW					
BLE 1M	2.0	1.5849	0.7	1.1749	0.0004	1.0000	0.0004
BLE 2M	1.0	1.2589	0.7	1.1749	0.0003	1.0000	0.0003

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	MPE ratios4
	dBm	mW					
GSM 850	23.97	249.4595	0.6	1.1482	0.0570	0.5493	0.1038
PCS 1900	20.97	125.0259	1.25	1.3335	0.0332	1.0000	0.0332
LTE Band 2	24.0	251.1886	1.25	1.3335	0.0666	1.0000	0.0666
LTE Band 4	24.0	251.1886	1.86	1.5346	0.0767	1.0000	0.0767
LTE Band 5	24.0	251.1886	0.6	1.1482	0.0574	0.5493	0.1045
LTE Band 12	24.0	251.1886	0.9	1.2303	0.0615	0.4660	0.1320
LTE Band 13	25.0	316.2278	1.1	1.2882	0.0810	0.5180	0.1564
LTE Band 25	26.0	398.1072	1.07	1.2794	0.1013	1.0000	0.1013
LTE Band 26	24.0	251.1886	1.21	1.3213	0.0660	0.5427	0.1216
LTE Band 66	24.0	251.1886	1.31	1.3521	0.0676	1.0000	0.0676

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 20cm from user manual provide by manufacturer.
4. For GSM, Duty cycle=1/8.



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7.2 Simultaneous Transmission MPE Evaluation

The sample support three BLE modulars and three antennas, one GSM<E transmit antenna, and two WPT modulars and two antennas, so need consider simultaneous transmission;

Simultaneous transmission MPE

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

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

$\sum$ of MPE ratios ≤ 1.0

MPE ratios1	MPE ratios2	MPE ratios3	MPE ratios4	WPT MPE ratios	Σ MPE ratios	Limit	Results
0.0004	0.0004	0.0004	0.1564	0.1451	0.3027	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.

10.Measurement Uncertainty

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-----



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