



FCC TEST REPORT

FOR

Phonetone Technology (Shenzhen) Co., Ltd.

Cell Phone Signal booster

Test Model: F40PH-US59

Prepared for : Phonetone Technology (Shenzhen) Co., Ltd.
Address : Room 404, Building 12, Qianlong Garden, Minzhi Street, Bao'an District, Shenzhen, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : May 08, 2025
Number of tested samples : 2
Sample No. : A250507077-1, A250507077-2
Serial number : 2025061100021
Date of Test : May 08, 2025 ~ May 29, 2025
Date of Report : May 30, 2025





RF Exposure Evaluation	
Report Reference No.	LCSA05085182EB
Date of Issue.....	May 30, 2025
Testing Laboratory Name.....	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address.....	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China
Testing Location/ Procedure.....	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name.....	Phonetone Technology (Shenzhen) Co., Ltd.
Address.....	Room 404, Building 12, Qianlong Garden, Minzhi Street, Bao'an 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.....	LCSEMC-1.0
TRF Originator.....	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....	Dated 2011-03
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Test Item Description.....	Cell Phone Signal booster
Trade Mark.....	INVCALL, INVCALL , ANNTLENT, ANNTLENT , PHONETONE, PHONETONE , CELSGN, CELSGN
Test Model.....	F40PH-US59 For AC Adapter(model: SK03T1-1200200U):
Ratings.....	Input: 100-240V~ 50/60Hz 0.6A Output: 12V---2A
Result	Pass

Compiled by:

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Jack Liu/ Technique principal

Approved by:

Gavin Liang

Gavin Liang / Manager



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**FCC -- TEST REPORT**

Test Report No. :	LCSA05085182EB	<u>May 30, 2025</u> Date of issue
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Test Model.....	: F40PH-US59
EUT.....	: Cell Phone Signal booster
Applicant.....	: Phonetone Technology (Shenzhen) Co., Ltd.
Address.....	: Room 404, Building 12, Qianlong Garden, Minzhi Street, Bao'an District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Phonetone Technology (Shenzhen) Co., Ltd.
Address.....	: Room 404, Building 12, Qianlong Garden, Minzhi Street, Bao'an District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Factory.....	: Phonetone Technology (Shenzhen) Co., Ltd.
Address.....	: Room 404, Building 12, Qianlong Garden, Minzhi Street, Bao'an 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

Revision	Issue Date	Revisions	Revised By
000	May 30, 2025	Initial Issue	---





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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	: Cell Phone Signal booster
Equipment Type	: Fixed Wideband Consumer Zone Enhancers
Test Model	: F40PH-US59
Power Supply	For AC Adapter(model: SK03T1-1200200U): Input: 100-240V~ 50/60Hz 0.6A Output: 12V $\overline{\text{---}}$ 2A
Hardware Version	: F40PH-US59 V0.9
Software Version	: F40PH-US59 V0.9
Frequency Range	Lower 700MHz Band (B12) Uplink: 698~716MHz, Downlink: 728~746MHz Upper 700MHz Band (B13) Uplink: 776~787MHz, Downlink: 746~757MHz Cellular Band (B5) Uplink: 824~849MHz, Downlink: 869~894MHz PCS Band (B2, B25) Uplink: 1850~1915MHz, Downlink: 1930~1995MHz AWS Band(B4) Uplink: 1710~1755MHz, Downlink: 2110~2155MHz Lower 700MHz Band (B12) Uplink: $\leq 64\text{dB}$, Downlink: $\leq 64\text{dB}$ Upper 700MHz Band (B13) Uplink: $\leq 64\text{dB}$, Downlink: $\leq 64\text{dB}$ Cellular Band (B5) Uplink: $\leq 64\text{dB}$, Downlink: $\leq 64\text{dB}$ PCS Band (B2, B25) Uplink: $\leq 72\text{dB}$, Downlink: $\leq 72\text{dB}$ AWS Band(B4) Uplink: $\leq 72\text{dB}$, Downlink: $\leq 72\text{dB}$
Max Gain	: Uplink: $\leq 64\text{dB}$, Downlink: $\leq 64\text{dB}$ PCS Band (B2, B25) Uplink: $\leq 72\text{dB}$, Downlink: $\leq 72\text{dB}$ AWS Band(B4) Uplink: $\leq 72\text{dB}$, Downlink: $\leq 72\text{dB}$
Mobile Antenna Gain	: 8dBi
Max Output Power	: Uplink: $\leq 23\text{dBm}$ Downlink: $\leq 10\text{dBm}$
Emission Designator	: F9W, G7D, G7W, GXW, W7D
FCC Classification	: B2W/Wideband Consumer Booster(CMRS)
Operating Temperature	: -25°C~+55°C





Antenna Information:

Remark: When selling, the antenna combination method is randomly matched: ①+② or ①+③

Mode	Frequency (MHz)	②Outdoor Antenna Gain (dBi) (Log Periodic Antenna, Model: AN201)	③Outdoor Antenna Gain (dBi) (Omni Antenna, Model: PTE-GF-700-2500)	Cable loss (dB)
Uplink	698-716	7	2.7	3.3
	776-787	7	2.7	3.3
	824-849	7	3	3.7
	1850-1915	7	3	5.7
	1710-1755	7	3	5.5
Mode	Frequency (MHz)	①(Internal) Indoor Antenna Gain (dBi) (Omni Antenna, Model: PTE-GF-700-2500IN)		Cable loss (dB)
Downlink	728-746	2.7		3.3
	746-757	2.7		3.3
	869-894	3		3.7
	1930-1995	3		5.7
	2110-2155	3		6.1





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. 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.

4. 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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5. 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

6. Conducted Power

Operation Band		Frequency (MHz)	Max Output Power (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP Power (dBm)
Uplink	Lower 700 Band (698-716)	707	21.53	7	3.3	25.23
	Upper 700 Band (776-787)	781.5	21.83	7	3.3	25.53
	Cellular Band (824-849)	836.5	22.49	7	3.7	25.79
	PCS Band (1850-1915)	1882.5	21.00	7	5.7	22.30
	AWS Band (1710-1755)	1732.5	22.42	7	5.5	23.92
Downlink	Lower 700 Band (728-746)	737	3.42	2.7	3.3	2.82
	Upper 700 Band (746-757)	751.5	3.77	2.7	3.3	3.17
	Cellular Band (869-894)	881.5	5.63	3	3.7	4.93
	PCS Band (1930-1995)	1962.5	8.36	3	5.7	5.66
	AWS Band (2110-2155)	2132.5	7.42	3	6.1	4.32

7. Manufacturing Tolerance

Operation Band		Frequency (MHz)	Max Output Power (dBm)	Target Power (dBm)	Tolerance $\pm$ (dB)
Uplink	Lower 700 Band (698-716)	707	21.53	21.5	1.0
	Upper 700 Band (776-787)	781.5	21.83	21.5	1.0
	Cellular Band (824-849)	836.5	22.49	22.5	1.0
	PCS Band (1850-1915)	1882.5	21.00	21.0	1.0
	AWS Band (1710-1755)	1732.5	22.42	22.5	1.0
Downlink	Lower 700 Band (728-746)	737	3.42	3.5	1.0
	Upper 700 Band (746-757)	751.5	3.77	3.5	1.0
	Cellular Band (869-894)	881.5	5.63	5.5	1.0
	PCS Band (1930-1995)	1962.5	8.36	8.5	1.0
	AWS Band (2110-2155)	2132.5	7.42	7.5	1.0



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8. Measurement Results

8.1 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.

Operation Band		Frequency (MHz)	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
			dBm	mW				
Uplink	Lower 700 Band (698-716)	707	22.5	177.8279	7	5.0119	0.1774	1.0000
	Upper 700 Band (776-787)	781.5	22.5	177.8279	7	5.0119	0.1774	1.0000
	Cellular Band (824-849)	836.5	23.5	223.8721	7	5.0119	0.2233	1.0000
	PCS Band (1850-1915)	1882.5	22.0	158.4893	7	5.0119	0.1581	1.0000
	AWS Band (1710-1755)	1732.5	23.5	223.8721	7	5.0119	0.2233	1.0000
Downlink	Lower 700 Band (728-746)	737	4.5	2.8184	2.7	1.8621	0.0010	1.0000
	Upper 700 Band (746-757)	751.5	4.5	2.8184	2.7	1.8621	0.0010	1.0000
	Cellular Band (869-894)	881.5	6.5	4.4668	3	1.9953	0.0018	1.0000
	PCS Band (1930-1995)	1962.5	9.5	8.9125	3	1.9953	0.0035	1.0000
	AWS Band (2110-2155)	2132.5	8.5	7.0795	3	1.9953	0.0028	1.0000

8.2 Simultaneous Transmission MPE Evaluation

Not need consider simultaneous transmission

9. Description of Test Facility

FCC Registration Number is 254912.
NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Industry Canada Registration Number is 9642A.

10. Conclusion

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

11. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Power disturbance	:	30MHz~300MHz	1.60dB	(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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