

RF Exposure Evaluation Report

Report No.: JYTSZ-R12-2500756

Applicant: SDF Inc

Address of Applicant: 8609 Westwood Center Dr., Suite 110, Tysons Corner, VA 22182, USA

Equipment Under Test (EUT)

Product Name: PIZZA BOX SYSTEM

Model No.: GRD-8SDR-PIZZA

Trade mark: SDF

FCC ID: 2BFW7GRD-8SDR-PIZZA

Applicable standards: FCC CFR Title 47 Part 2 (§2.1091)

Date of sample receipt: 20 May, 2025

Date of Test: 21 May, to 13 Jun., 2025

Date of report issue: 23 Jun., 2025

Test Result: PASS

Project by: Li Xian Ping

Date: 23 Jun., 2025

Reviewed by: Project Engineer

Date: 23 Jun., 2025

Approved by: James Wei

Date: 23 Jun., 2025

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	13 Jun., 2025	Original
01	23 Jun., 2025	<i>Update the product name and update page 7 of the report.</i>

2 Contents

	Page
Cover Page	1
1 Version	2
2 Contents.....	3
3 General Information	4
3.1 Client Information	4
3.2 General Description of E.U.T.	4
3.3 Operating Modes	4
3.4 Additions to, deviations, or exclusions from the method.....	5
3.5 Laboratory Facility	5
3.6 Laboratory Location.....	5
4 Technical Requirements Specification.....	6
4.1 Limits	6
4.2 Test Procedure.....	6
4.3 Result	7
4.4 Conclusion.....	7

3 General Information

3.1 Client Information

Applicant:	SDF Inc
Address:	8609 Westwood Center Dr., Suite 110, Tysons Corner, VA 22182, USA
Manufacturer/ Factory:	Septier Communication Ltd.
Address:	35 Efal st. Petah Tikwa, Israel

3.2 General Description of E.U.T.

Product Name:	PIZZA BOX SYSTEM	
Model No.:	GRD-8SDR-PIZZA	
Operation Frequency:	GSM850:	869.2 MHz-893.8 MHz
	PCS1900:	1930.2 MHz -1989.8 MHz
	WCDMA band II:	1932.4 MHz – 1987.6 MHz
	WCDMA band IV:	2112.4 MHz – 2132.6 MHz
	WCDMA band V:	871.4 MHz – 891.6 MHz
	LTE band 2:	1930 MHz - 1990 MHz
	LTE band 25:	1930 MHz - 1995 MHz
	LTE band 26:	859 MHz - 894 MHz
	LTE band 66:	2110 MHz - 2180 MHz
Modulation technology:	GSM:GMSK WCDMA:QPSK LTE QPSK,16QAM	
Antenna Type:	External Antenna	
Antenna gain:	GSM 850:	ANT1: 3.14 dBi (declare by Applicant)
		ANT2: 3.14 dBi (declare by Applicant)
	PCS 1900:	ANT1: 1.2 dBi (declare by Applicant)
		ANT2: 1.2 dBi (declare by Applicant)
	WCDMA B2:	ANT1: 1.2 dBi (declare by Applicant)
		ANT2: 1.2 dBi (declare by Applicant)
	WCDMA B4:	ANT1: 1.2 dBi (declare by Applicant)
		ANT2: 1.2 dBi (declare by Applicant)
	WCDMA B5:	ANT1: 3.14 dBi (declare by Applicant)
		ANT2: 3.14 dBi (declare by Applicant)
	LTE B2:	ANT1: 1.2 dBi (declare by Applicant)
		ANT2: 1.2 dBi (declare by Applicant)
	LTE B25:	ANT1: 1.2 dBi (declare by Applicant)
		ANT2: 1.2 dBi (declare by Applicant)
	LTE B26:	ANT1: 3.14 dBi (declare by Applicant)
		ANT2: 3.14 dBi (declare by Applicant)
	LTE B66:	ANT1: 1.2 dBi (declare by Applicant)
		ANT2: 1.2 dBi (declare by Applicant)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

3.3 Operating Modes

Operating mode	Detail description
GSM mode	Keep the EUT in continuously transmitting in GSM850/1900 mode
WCDMA mode	Keep the EUT in continuously transmitting in WCDMA Band 2/5 mode
LTE mode	Keep the EUT in continuously transmitting in LTE Band 2/25/26/66 mode

3.4 Additions to, deviations, or exclusions from the method

No

3.5 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTe@lets.com, Website: <http://jyt.lets.com>

4 Technical Requirements Specification

4.1 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	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

4.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

4.3 Result

Frequency (MHz)	Maximum Output power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm ²)	Limits for General Population/ Uncontrolled Exposure (mW/cm ²)
GSM							
GSM850	-0.79	0.834	3.14	2.06	20.00	0.0003	0.55
PCS1900	1.1	1.288	1.2	1.32	20.00	0.0003	1.0
WCDMA							
WCDMA Band II	1.19	1.315	1.2	1.32	20.00	0.0003	1.0
WCDMA Band V	1.37	1.371	3.14	2.06	20.00	0.0005	0.55
LTE							
LTE Band2	2.06	1.607	1.2	1.32	20.00	0.0004	1.0
LTE Band25	1.95	1.567	1.2	1.32	20.00	0.0004	1.0
LTE Band26(22H)	2.44	1.754	3.14	2.06	20.00	0.0007	0.54
LTE Band26(90S)	2.45	1.754	3.14	2.06	20.00	0.0007	0.54
LTE Band66	1.48	1.406	1.2	1.32	20.00	0.0004	1.0

Simultaneous transmission(Worse mode):

RF Module No.	Mode	Ratio	Total Ratio	Limit
1	LTE Band 26(90S)	0.001	0.004	1.00
2	LTE Band 26(90S)	0.001		
3	LTE Band 26(90S)	0.001		
4	LTE Band 26(90S)	0.001		

Note: Just the worst case mode was shown in report.

4.4 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

-----End of report-----