

RF EXPOSURE EVALUATION REPORT

Application No.: FYCR2606000210MD

Applicant: Laservii (Shenzhen) Technology Co., Ltd.

Address of Applicant: Factory 201, Nankeng Second Industrial Zone, Nankeng Community, Bantian Street, Longgang, Shenzhen, Guangdong, China

Manufacturer: Laservii (Shenzhen) Technology Co., Ltd.

Address of Manufacturer: Factory 201, Nankeng Second Industrial Zone, Nankeng Community, Bantian Street, Longgang, Shenzhen, Guangdong, China

Factory: Laservii (Shenzhen) Technology Co., Ltd.

Address of Factory: Factory 201, Nankeng Second Industrial Zone, Nankeng Community, Bantian Street, Longgang, Shenzhen, Guangdong, China

Product Name: Laser Engraving Machine

Model No.: M1s, M1s-12W, M1s-24W, M1s IR-2W, M1s-36W, M1s Ultra, M1s Pro, M5, M5 Pro, M5 Ultra

☐ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

FCC ID: 2BVDR-M1SM5

Standard(s) : KDB 447498 D01 V06
47 CFR Part 1.1310

Date of Receipt: 2026-08-25

Date of Evaluation: 2026-08-25 to 2026-08-25

Date of Issue: 2026-08-31

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260600021002

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-08-31		Original

Authorized for issue by:			
		Byron Liang	
		Byron Liang/Project Engineer	
Approved By		Tree Zhan	
		Tree Zhan/Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Product Type:	☐ Portable device
	☒ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

Power supply: MODEL: FY1202405000

INPUT: AC 100-240V 50/60Hz

OUTPUT: DC 24V 5A

Cable(s): AC mains, 3 wires, 2.0m, unshielded.

RF character: Refer to report FYCR260600021001 for 2.4G Wi-Fi detail.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.3 Separation Distance

Minimum test separation distance:	≥20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	

3.4 Evaluating Location

All evaluation were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.



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3.5 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 FCC Radiofrequency radiation exposure limits

4.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.2 RF Exposure Evaluation

4.2.1 Limit & Test Method

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * P_i * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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4.2.2 Conclusion

For 2.4 GHz Wi-Fi

Antenna Gain: 2 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
11B						
2412	1.584893192	14.42	27.67	0.00872	1.000	Complies
2442	1.584893192	14.26	26.67	0.00841	1.000	Complies
2462	1.584893192	14.32	27.04	0.00853	1.000	Complies
11G						
2412	1.584893192	15.06	32.06	0.01011	1.000	Complies
2442	1.584893192	14.79	30.13	0.00950	1.000	Complies
2462	1.584893192	14.83	30.41	0.00959	1.000	Complies
11N20						
2412	1.584893192	13.63	23.07	0.00727	1.000	Complies
2442	1.584893192	13.48	22.28	0.00703	1.000	Complies
2462	1.584893192	13.4	21.88	0.00690	1.000	Complies
11N40						
2422	1.584893192	13.64	23.12	0.00729	1.000	Complies
2442	1.584893192	14.83	30.41	0.00959	1.000	Complies
2452	1.584893192	15.1	32.36	0.01020	1.000	Complies

So further test is not required.

Note: Refer to report No. FYCR260600021001 for EUT test Max Conducted Peak Output Power value.



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5 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2606000210MD

- End of the Report -



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