

MPE Evaluation Report

Applicant Shanghai Xiangcheng Communication Technology Co., Ltd.
FCC ID 2A2UU-D0552
Product Intelligent Desktop Computer
Brand Nebullar
Model Gemini1 SE
Report No. EFTA26070012-IE-08-M1
Issue Date August 6, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 §1.1310, §2.1091**. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.



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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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2 Description of Equipment Under Test

Client Information

Applicant	Shanghai Xiangcheng Communication Technology Co., Ltd
Applicant address	6th Floor, Building 10, No. 3000 Longdong Avenue, Pudong New Area, Shanghai,China
Manufacturer	Shanghai Xiangcheng Communication Technology Co., Ltd
Manufacturer address	6th Floor, Building 10, No. 3000 Longdong Avenue, Pudong New Area, Shanghai,China

General Technologies

EUT Description			
Model	Gemini1 SE		
Lab Internal SN	D055202X2605D00206		
Hardware Version	V1.0B		
Software Version	d0551_nebular_combo_20260608		
Frequency	Band	TX (MHz)	RX (MHz)
	Wi-Fi 2.4GHz	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 5G(U-NII-1)	5150 ~ 5250	5150 ~ 5250
	Wi-Fi 5GHz (U-NII-2A)	5250 ~ 5350	5250 ~ 5350
	Wi-Fi 5G(U-NII-2C)	5470 ~ 5600 5650 ~ 5725	5470 ~ 5600 5650 ~ 5725
	Wi-Fi 5G(U-NII-3)	5725~ 5850	5725~ 5850
	Bluetooth	2400 ~ 2483.5	2400 ~ 2483.5
	Bluetooth LE	2400 ~ 2483.5	2400 ~ 2483.5
	NFC	13.56	13.56
EUT Accessory			
AC Adapter 1	Manufacturer: Hunan Dajing Power Technology Co., Ltd. Model: DJ-240150 SA		
AC Adapter 2	Manufacturer: Hunan Dajing Power Technology Co., Ltd. Model: 20202K-240150E		
AC Adapter 3	Manufacturer: Hunan Dajing Power Technology Co., Ltd. Model: 20202K-240150U		
Date of Testing	July 7, 2026 ~ July 30, 2026		
Date of Sample Received	July 1, 2026		
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.			

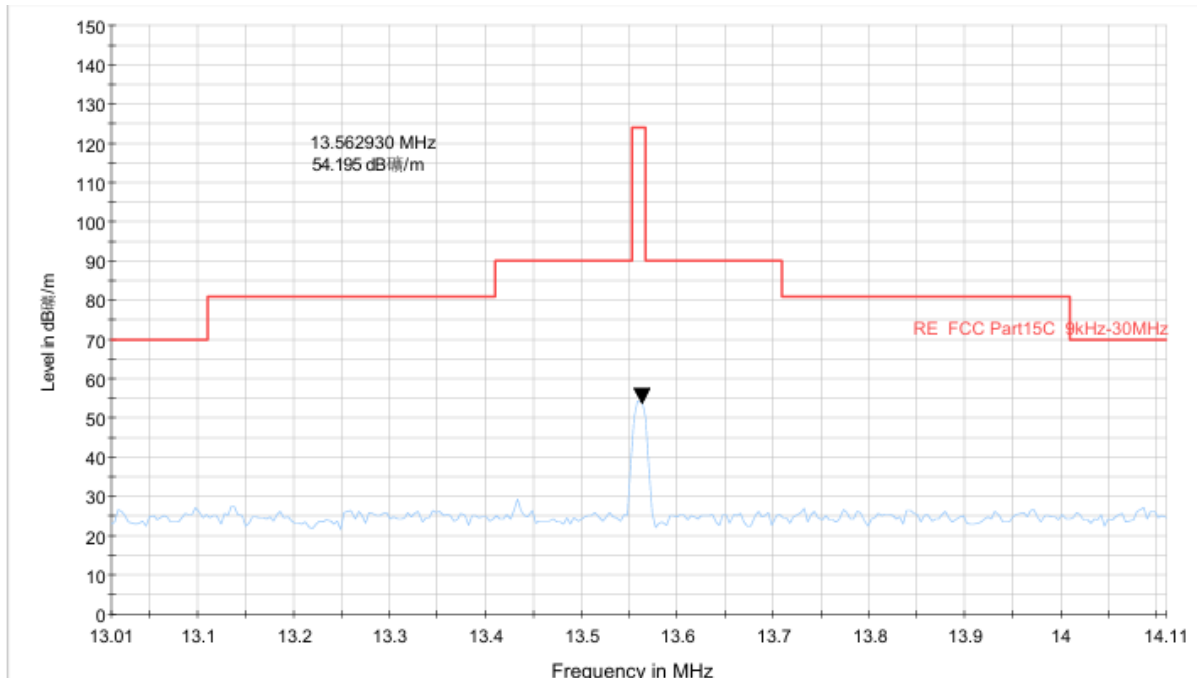
2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

3 Maximum Tune up, EIRP and Antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by

Numeric gain (G)=10[^] (antenna gain/10)

For NFC:



Note: Test data comes from RF report and please refer to the RF report for testing related information.

Carrier Frequency (MHz)	Max.E-field strength (dBμV/m)	EIRP [dBm]
13.563	54.195	-41.005

Note: EIRP [dBm] = E-field [dBμV/m] – 95.2 = -41.005 dBm << 0 dBm

So, the maximum tune up results for each band are as follows:

Band	Maximum Tune up Tolerance		Antenna Gain (dBi)	Numeric Gain
	(dBm)	(mW)		
Wi-Fi 2.4GHz	19.00	79.43	3.10	2.04
Wi-Fi 5G(U-NII-1)	16.00	39.81	1.69	1.48
Wi-Fi 5GHz (U-NII-2A)	16.00	39.81	1.69	1.48
Wi-Fi 5G(U-NII-2C)	16.00	39.81	1.63	1.46
Wi-Fi 5G(U-NII-3)	16.00	39.81	0.96	1.25
Bluetooth	12.00	15.85	3.10	2.04
Bluetooth LE	1.00	1.26	3.10	2.04

Band	EIRP (dBm)
NFC	<< 0.00

4 MPE Limit

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) 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
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

*f = frequency in MHz. * = Plane-wave equivalent power density.*

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The maximum permissible exposure for 1500~100,000MHz is 1.0, 1.34~30MHz is $\frac{180}{f^2}$. So

Band	The Maximum Permissible Exposure (mW/cm ²)
Wi-Fi 2.4GHz	1.000
Wi-Fi 5GHz	1.000
Bluetooth	1.000
NFC	0.979

5 RF Exposure Evaluation Result

RF exposure evaluation method is based on KDB 447498 D01, this calculation is based on the conducted power, maximum power and antenna gain with provides the minimum separation distance. The formula shown below is from OET Bulletin 65 Edition 97-01 Per KDB 447498 D01:

$$S = PG / 4\pi R^2$$

Where: S = power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	Maximum EIRP (dBm)	PG (mW)	Result (mW/cm ²)	Limit Value (mW/cm ²)	The MPE Ratio
Wi-Fi 2.4GHz	22.1000	162.1810	0.0323	1.000	0.0323
Wi-Fi 5G(U-NII-1)	17.6900	58.7489	0.0117	1.000	0.0117
Wi-Fi 5GHz (U-NII-2A)	17.6900	58.7489	0.0117	1.000	0.0117
Wi-Fi 5G(U-NII-2C)	17.6300	57.9429	0.0115	1.000	0.0115
Wi-Fi 5G(U-NII-3)	16.9600	49.6592	0.0099	1.000	0.0099
Bluetooth	15.1000	32.3594	0.0064	1.000	0.0064
Bluetooth LE	4.1000	2.5704	0.0005	1.000	0.0005
NFC	0.0000	1.0000	0.0002	0.979	0.0002
Note: R = 20cm $\pi = 3.1416$ The MPE Ratio = Mac Result÷Limit Value					

This device only supports simultaneous transmission via Wi-Fi 2.4GHz and Wi-Fi 5G and Bluetooth.

So, the simultaneous transmitting antenna max pairs as below:

TER = Wi-Fi 2.4GHz Antenna MPE Ratio + Wi-Fi 5GHz Antenna MPE Ratio + Bluetooth Antenna MPE Ratio = 0.0323 + 0.0117 + 0.0064 = 0.0504 < 1.

So, the limit is kept.

Note: For this device, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

*****END OF REPORT *****