

TEST REPORT



Report Reference. No.: 80260100022001

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Sample ID	BLC-01-0946117-002	
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Testing Laboratory.....:	TUV SUD South Asia Pvt Ltd	
Address.....:	Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru, Bengaluru North Taluk Pin code – 562149 India	
Applicant's name	Exicom Tele-Systems Limited	
Address.....:	3rd Floor, Plot No 38, Sector 32, Gurugram, Haryana 122001 India	
Client Representative.....:	Surya Kant Singh	
Test specification Standard.....:	RF Exposure Report FCC 47 CFR 1.1310	
Test Method.....:	FCC KDB 447498 D01	
Non-standard test method..... :	NA	
Test Report Form Number.....:	LAB_F(EE)_138-049	
Product Name.....:	EV AC Charger	
Test Item Description.....:	Electric Vehicle Supply Equipment	
Manufacturer	Exicom Tele Systems Limited	
Model Number.....:	SpinAirUL11K240-1T48-W-M-R-ET	
Serial Number.....:	HE531296#D32210417040844	
Ratings.....:	208/240 VAC, 60 Hz	
FCC ID.....:	2BUQR-SPINAIR-WMRET	
Prepared by (Name + Signature)	Nikhil G	
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1 TEST SUMMARY

Sl.no	Protocol, Band (MHz)	Basic Standard	Result
		FCC	
1.	NFC 13.56	FCC 47 CFR 1.1310 FCC KDB 447498 D01	PASS

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2 EQUIPMENT INFORMATION

2.1 Product Function

The SPIN Air, as well as its various models and configurations. It provides essential guidance for the following activities:
Installation of the charger
Operation of the charger
Performing fundamental maintenance procedures

2.2 General Information of EUT

Table 1: EUT details as declared by client*

EUT Name	RFID Module	
Protocol	RFID 13.56MHz	
Operating Frequency Range	13.110-14.010 MHz	
Environmental conditions	Storage	-58°F to +158°F (-30°C to +50°C)
	Operating	-22°F to +122°F (-30°C to +50°C)
Supply Voltage	208/240 VAC with 60 Hz	
Max Measured field strength (Radiated)	42.56dBμV/m	
Modulation	Amplitude modulation	
Number of antennas	1	
Antenna Type	PCB Loop antenna	
EUT Dimension (LxWxH)	246mm x 246mm x 133mm	

*Disclaimer: The TÜV SÜD is not responsible for the accuracy of the customer declared specification.

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3 RF EXPOSURE EVALUATION METHOD

3.1 Scope

According to FCC KDB 447498 D01 General RF Exposure Guidance v06, standalone SAR testing for general population/uncontrolled exposure is not required when the device operates under the defined RF exposure limits and meets exemption criteria.

4 EIRP Calculation from Measured Field Strength

Parameter	Value
Operating Frequency	13.56 MHz
Test Separation Distance	20 cm
Measured Field Strength	42.56 dBμV/m
Calculated EIRP	-52.64 dBm (0.000005445 mW)

EIRP Calculation:

$$\text{EIRP(dBm)} = \text{FS(dB}\mu\text{V/m)} - 95.2$$

$$\text{EIRP(dBm)} = 42.56 - 95.2$$

$$\text{EIRP} = -52.64 \text{ dBm} = 0.000005445 \text{ mW}$$

(FS- Field Strength in dBμV/m)

Note: The Mentioned Field strength taken from test report:

5 Power Density Estimation at Specified Distance

Power Density (PD) Calculation at 20 cm separation

Using the far-field formula:

$$\text{PD} = (\text{EIRP}) / (4 * \pi * r^2)$$

Where,

$$\text{EIRP} = 0.000005445 \text{ mW}$$

$$r = 20 \text{ cm} = 0.2 \text{ m}$$

$$\text{PD} = (0.000005445) / (4 * \pi * (0.2)^2) = 0.0000108 \text{ mW/cm}^2$$

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5.1 RF Exposure Limits

5.1.1 FCC RF Exposure Limits

According to FCC 47 CFR §1.1310, the Maximum Permissible Exposure limits for RF electromagnetic fields are defined as follows.

Table 1: FCC Limits for Maximum Permissible Exposure (MPE)

TABLE 1 TO § 1.1310(E)(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)
(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.

Where:

F = Frequency in MHz

$$\text{Limit} = 180 / (f)^2$$

Where f = frequency in MHz

$$(f)^2 = (13.56)^2 = 183.873$$

$$\text{Limit} = (180) / (13.56)^2 = 0.9787 \text{ mW/cm}^2$$

6 Summary and Compliance Statement

Power Density at 20 cm: 0.0000108 mW/cm²

FCC Limit at 13.56 MHz: 0.9787 mW/cm²

EIRP: 0.000005445 mW

7 CONCLUSION

This evaluation has been performed in accordance with FCC KDB 447498 D01 General RF Exposure Guidance v06 and demonstrates that the device does not require SAR testing under the defined exemption criteria.

-----End of Report-----