TEST REPORT

Report Reference. No.: 80260100095001

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Sample ID.....:	BLC-01-0946117-002	
Date of issue.....:	03/07/2026	
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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.	LTE 4G and WCDMA	FCC 47 CFR 1.1310 FCC KDB 447498 D01	PASS

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*

Radio Protocol	LTE & WCDMA				
LTE E-UTRA operating bands	Band	Bandwidth (MHz)	UL Frequency (MHz)	DL Frequency (MHz)	Modulation
	2	1.4, 3, 5, 10, 15, 20	1850.7 -1909.3	1930.7-1989.3	QPSK, 16QAM
	4	1.4, 3, 5, 10, 15, 20	1710.7 - 1754.3	2110.7-2154.3	QPSK, 16QAM
	5	1.4, 3, 5, 10	824.7 - 848.3	869.7 - 893.3	QPSK, 16QAM
	12	1.4, 3, 5, 10	699 - 716	729 - 746	QPSK, 16QAM
	13	5	777 - 787	746 -756	QPSK, 16QAM
	66	1.4, 3, 5, 10, 15, 20	1710 -1780	2110 - 2200	QPSK, 16QAM
	71	5,10.15,20	693 - 698	617 - 652	QPSK, 16QAM
WCDMA/HSDPA/HSUPA	2	-	1852.4-1907.6	1932.4-1987.6	QPSK
	4	-	1710 - 1755	2110 - 2155	QPSK
	5	-	826.4-846.6	871.4-891.6	QPSK
Transmitted Power for LTE	Band	Power Class			
	2	Power Class 3: 23dBm		24.24dBm@1851.5MHz	
	4	Power Class 3: 23dBm		24.14dBm@1720MHz	
	5	Power Class 3: 23dBm		24.22dBm@844MHz	
	12	Power Class 3: 23dBm		24.28dBm@707MHz	
	13	Power Class 3: 23dBm		24.20dBm@782MHz	
	66	Power Class 3: 23dBm		24.13dBm@1770MHz	
	71	Power Class 3: 23dBm		24.30dBm@680.5MHz	
Transmitted Power for WCDMA (dBm)	2	Power Class 3: 24dBm		23.61dBm@1852.4MHz	
	4	Power Class 3: 24dBm		23.57dBm@1732.6MHz	
	5	Power Class 3: 24dBm		23.76dBm@846.6MHz	
Antenna Type	FPC ANTENNA				
Number of Antenna	01				
Antenna Gain	Refer Table 1: Antenna Gain Details				
Supply Voltage to Product	208/240 VAC, 60 Hz				
Environmental conditions	Storage	-58°F to +158°F (-30°C to +50°C)			
	Operating	-22°F to +122°F (-30°C to +50°C)			
EUT Dimension (LxWxH)					

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

Antenna Type	Protocol	Cellular Bands	Uplink Frequency Range (MHz)	Downlink Frequency Range (MHz)	Peak Antenna Gain (dBi)
Primary Antenna (External)	LTE	2	1850.7 -1909.3	1930.7-1989.3	2
		4	1710.7 - 1754.3	2110.7-2154.3	2
		5	824.7 - 848.3	869.7 - 893.3	2
		12	699 - 716	729 - 746	2
		13	777 - 787	746 -756	2
		66	1710 -1780	2110 - 2200	2
		71	693 - 698	617 - 652	2
	WCDMA	2	1852.4-1907.6	1932.4-1987.6	2
		4	1710 - 1755	2110 - 2155	2
		5	826.4-846.6	871.4-891.6	2

Table 1: Antenna Gain Details

3 RF EXPOSURE EVALUATION METHOD

3.1 Scope

This section documents the RF exposure evaluation of the Equipment Under Test (EUT) to demonstrate compliance with the applicable Maximum Permissible Exposure (MPE) requirements of FCC 47 CFR §1.1310.

The EUT is intended for operation with a minimum separation distance greater than 20 cm between the antenna and the human body. Therefore, RF exposure compliance is evaluated using power density–based MPE limits, and Specific Absorption Rate (SAR) evaluation is not required.

3.2 RF Exposure Limits

3.2.1 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)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

Where:

F = Frequency in MHz

3.3 RF Exposure Evaluation Method

RF exposure levels are calculated using the Friis transmission formula, assuming free-space propagation and maximum antenna gain. This method is conservative and represents a worst-case RF exposure scenario.

$$P_d = \frac{P_{\text{out}} \times G}{4\pi r^2}$$

Where:

- P_d= Power density (mW/cm²)
- P_{out}= Maximum output power delivered to the antenna (mW)
- G= Antenna gain (linear scale)
- r= Separation distance between the antenna and the observation point (cm)

Test Results:

1.Antenna Gain: refer Table 1: Antenna Gain Details

2.The Mentioned Output power taken from test report: 80260100094001

1. **Protocol: LTE Band-2_Frequency-1851.5MHz_CB-3MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	1851.5	24.24	1	334.1950	0.105373	1

2. **Protocol: LTE Band-4_Frequency-1720MHz_CB-20MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	1720	24.14	1	326.5878	0.105373	1

3. **Protocol: LTE Band-5_Frequency-844MHz_CB-10MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	844	24.22	1	322.659	0.104888	0.56

4. **Protocol: LTE Band-12_Frequency-707.5MHz_CB-3MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	707.5	24.28	1	337.287	0.106347	0.47

5. **Protocol: LTE Band-13_Frequency-782MHz_CB-5MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	782	24.20	1	331.131	0.104406	0.52

6. **Protocol: LTE Band-66_Frequency-1770MHz_CB-20MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	1770	24.20	1	325.836	0.102737	1

7. **Protocol: LTE Band-66_Frequency-680.5MHz_CB-20MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	680.5	24.30	1	338.844	0.106838	0.45

8. **Protocol: WCDMA Band-2_Frequency-1852.4MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	1852.4	23.61	1	289.067	0.091144	1

9. **Protocol: WCDMA Band-4_Frequency-1732.6MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	1732.6	23.57	1	286.417	0.090308	1

10. **Protocol: WCDMA Band-4_Frequency-846.6MHz**

Antenna Gain (dBi)	Antenna gain in linear scale	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up Value in (dB)	Maximum output power including Tune-up value (mW)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
2	1.585	846.6	23.76	1	299.226	0.094347	0.56

Note:
1. Antenna gain details are taken from the antenna data sheet(LTE & WCDMA FCB Chip Antenna)
2. Manufacturer has declared the tune-up value as ±1 dB is considered in MPE calculation.

4 RESULTS SUMMARY

Based on the RF exposure evaluation performed in accordance with FCC 47 CFR §2.1091, FCC 47 CFR §1.1310 the LTE and WCDMA transmitter of the EUT was assessed using the Maximum Permissible Exposure (MPE) method.

5 CONCLUSION

Based on the MPE evaluation and the specified operating conditions with a separation distance greater than 20 cm, the device is considered RF exposure compliant for general population / uncontrolled use.

Note: The above calculation is within the limit
Therefore, SAR evaluation is not required, and the device complies with the applicable RF exposure requirements

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