



TEST REPORT

Report Reference No.....:	80260100018001	
Sample ID	BLC-01-0963916-001	
Date of issue	27/04/2026	
Total number of pages.....:	11	
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	Schneider Electric USA, Inc.,	
Address.....:	201 Washington Street One Boston Place, Suite 2700 Boston, Massachusetts, 02108 United States	
Client Representative.....:	Ajith Kumar	
Test specification Standard.....:	RF Exposure Report FCC 47 CFR 1.1310, FCC 47 CFR Part 2.1093 / ISSED RSS-102 Issue 6	
Test Method	FCC KDB 447498 and RSS-102 Issue 6	
Non-standard test method..... :	NA	
Test Report Form Number.....:	LAB_F(EE)_138-049	
Product Name.....:	Schneider Charge	
Test Item Description.....:	Electric Vehicle Supply Equipment (EVSE)	
Manufacturer	Schneider Electric	
Model Number.....:	EVRBA48ANAMJ3400, EVRBA48ANAMJ1772	
Serial Number.....:	EP2-J3400-09	
Ratings.....:	208/240 VAC, 60 Hz	
FCC ID.....:	2AODL-EVRBA48ANAM	
IC ID.....:	24209-EVRBA48ANAM	
Prepared by (Name + Signature)	Nikhil G	
Reviewed & Approved by (Name + Signature)	Raghunath M N	

TEST REPORT



Report Reference. No.: 80260100018001

Possible test case verdicts:

- test case does not apply to the test object: N/A
- test object does meet the requirement: Pass
- test object does not meet the requirement: Fail

Testing:

Condition of the EUT on Receipt.....: Good
Date of receipt of test item: 06/10/2025
Date (s) of performance of tests.....: 21/11/2025 to 26/03/2026

General remarks:

1. The submitted sample(s) were not drawn by laboratory.
2. The test results presented in this report relate only to the object tested.
3. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.
4. The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/E-mail is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.
5. The laboratory will retain the sample(s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.
6. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
“(see Enclosure #)” refers to additional information appended to the report.
“(see appended table)” refers to a table appended to the report.
7. Throughout this report a point is used as the decimal separator.

Use of uncertainty of measurement for decisions on conformity (decision rule): Yes/No

☒ No decision rule is specified by the IEC/EN standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty (“simple acceptance” decision rule, previously known as “accuracy method”).

☐ Other: (to be specified)

Decisions on conformity: Decision on conformity of results is based on as per standard limits or criteria.

Summary of compliance: The Product comply with the requirements of FCC 47 CFR 1.1310, FCC 47 CFR Part 2.1093 / ISED RSS-102 Issue 6

TEST REPORT



Report Reference. No.: 80260100018001

Revision History of Records

Test Report Number	Version	Reason for Change	Date Issued
80260100018001	01	Initial Report	09/02/2026
80260100018001	02	TCB Review Comments	01/04/2026
80260100018001	03	TCB Review Comments	27/04/2026

TEST REPORT



Report Reference. No.: 80260100018001

CONTENTS

1 TEST SUMMARY	5
2 EQUIPMENT INFORMATION	6
2.1 PRODUCT FUNCTION	6
2.2 PRODUCT MODEL SIMILARITIES/DIFFERENTIATING CHARACTERISTICS.....	6
2.3 GENERAL INFORMATION OF EUT	7
2.4 ANTENNA CONFIGURATIONS EVALUATED	8
3 RF EXPOSURE EVALUATION METHOD	9
3.1 SCOPE	9
3.2 RF EXPOSURE LIMITS.....	9
3.3 RF EXPOSURE EVALUATION METHOD	10
4 RESULTS SUMMARY	11
5 CONCLUSION.....	11

TEST REPORT



Report Reference. No.: 80260100018001

1 TEST SUMMARY

Sl.no	Protocol, Band (MHz)	Basic Standard		Result
		FCC	ISED	
1.	Wi-Fi 2.4GHz (2412MHz – 2462MHz)	FCC 47 CFR 1.1310, FCC 47 CFR 2.1093, FCC KDB 447498 D01	ISED RSS-102 Issue 6	PASS

Note:

Testing has performed for the model - **EVBA48ANAMJ3400**. The model - **EVBA48ANAMJ1772** have been included, as the manufacturer's specifications detailed in the **Product Model Similarities/Differentiating Characteristics** confirm either no changes or changes that do not necessitate separate testing.

TEST REPORT



Report Reference. No.: 80260100018001

2 EQUIPMENT INFORMATION

2.1 Product Function

Schneider Charge is a Level 2 AC electric vehicle charging station designed for residential applications. This charging station is intended for charging electric vehicles fitted with a J1772 (Type 1) or J3400 (NACS) connector.

When installed with current transformers, charging station has integrated load management that dynamically adjusts charging output based on the home's available electrical capacity, to help avoid costly service panel upgrades.

2.2 Product Model Similarities/Differentiating Characteristics

Table 1: Product Model Similarities/Differentiating Characteristics

Manufacturer	Schneider Electric	
Product Name	Schneider Charge	
Model Number	EVRBA48ANAMJ3400	EVRBA48ANAMJ1772
Sl. No	Similarities	
1.	Used for AC Charging	
2.	5 pin connector- L1, L2/N, PE, CP, PP	
3.	The PCBAs remain common for both the models of the cable	
4.	Both models are similar in terms of electrical ratings, as well as hardware and mechanical construction.	
Sl. No	Differences	
1.	Uses SAE J3400 connector on the output cable that connects to EV. This connector (NACS) is significantly smaller and more compact than the SAE J1772 connector.	Uses SAE J1772 connector on the output cable that connects to EV. It is Larger, bulkier connector design compared to SAE J3400

Note: Performing all tests on the J3400 sample has been considered acceptable for both models, as there are no changes in the EUT except for the EV connector, which is a bulkier connector (J1772).

***Disclaimer:**

All product differentiating characteristics, including names, model numbers, and specifications, are derived from information and data supplied by the Manufacturer. Any unauthorized modifications or unstated variations could lead to discrepancies in test results. For comprehensive details and complete product specifications, please refer to the official product user manual.

TEST REPORT



Report Reference. No.: 80260100018001

2.3 General Information of EUT

Table 2: EUT details as declared by client*

EUT Name	Schneider Charge	
Model	EVRBA48ANAMJ3400, EVRBA48ANAMJ1772	
Protocol	Wi-Fi 2.4GHz	
Operating Frequency Range	2412MHz to 2462MHz	
Channel Spacing	5MHz	
Environmental conditions	Storage	-58°F to +158°F (-50°C to +70°C)
	Operating	-22°F to +122°F (-30°C to +50°C)
Supply Voltage	208/240 VAC with 60 Hz	
Maximum Measured e.i.r.p Power (dBm)	17.71 dBm @b Mode_11Mbps	
Modulation	802.11b: DBPSK, DQPSK 802.11g: BPSK, QPSK, 16QAM, 64QAM 802.11n HT20: BPSK, QPSK, 16QAM, 64QAM	
Number of antennas	03	
Antenna Type	Refer to <u>Antenna Configurations Evaluated</u>	
Antenna Gain	Refer to <u>Antenna Configurations Evaluated</u>	
EUT Dimension (LxWxH)	105mm x 174mm x 392mm	

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

TEST REPORT



Report Reference. No.: 80260100018001

2.4 Antenna Configurations Evaluated

The Schneider Charge supports antenna diversity using an RF switch, allowing only one antenna to be active at any given time. The following antenna configurations were considered for evaluation:

- Murata on-board trace antenna (On-board PCB antenna on EUT with LBEE5PK2AE-967 module)
- External flex PCB antenna – Pulse W3917B0100H
- External flex PCB antenna – Pulse W3917B0080H

Antenna Details:

Schneider Charge implements one on board trace antenna and one among the other two external flex antennas mentioned in the table below.

Sl.no	Antenna Type	Manufacturer	Model	Antenna Gain (dBi)	Description
1.	On-board trace antenna	Murata	On-board PCB antenna on EUT with LBEE5PK2AE-967 module	2.01dBi	Original antenna design certified with the Murata module. (There is a RF switch in between module and Antenna)
2.	External flex PCB antenna (alternate 1)	Pulse	W3917B0100H	1.13dBi	Mounted on U.FI connector, connected via RF switch
3.	External flex PCB antenna (alternate 2)	Pulse	W3917B0080H	1.13dBi	Mounted on U.FI connector, connected via RF switch

TEST REPORT



Report Reference. No.: 80260100018001

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, FCC 47 CFR §2.1091 and ISED RSS-102 Issue 6.

The EUT is intended for operation with a minimum separation distance greater than 20 cm between the antenna and the human body. Therefore:

- For FCC, RF exposure compliance is evaluated using power density–based MPE limits.
- For ISED, RF exposure compliance is evaluated as per RSS-102 Issue 6, Section 6.6 (EIRP-based exemption limits).

SAR evaluation is not required.

3.2 RF Exposure Limits

• FCC RF Exposure Limits

According to FCC 47 CFR §1.1310, the Maximum Permissible Exposure limits are defined as follows.
Table 1: FCC Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Exposure Environment	Power Density Limit (mW/cm ²)
300 – 1500	General Population / Uncontrolled	F / 1500
1500 – 100000	General Population / Uncontrolled	1
300 – 1500	Occupational / Controlled	F / 300
1500 – 100000	Occupational / Controlled	5

Where:

F = Frequency in MHz

• ISED RF Exposure Limits (RSS-102 Issue 6 – Section 6.6)

According to RSS-102 Issue 6, Section 6.6, devices operating with a separation distance greater than 20 cm may be exempted from routine RF exposure evaluation if the source-based, time-averaged maximum EIRP is below the specified threshold.

For frequencies between 300 MHz and 6 GHz, the exemption limit is defined as:

$$EIRP \leq 1.31 \times 10^{-2} \times f^{0.6834}$$

Where:

- f = frequency in MHz
- EIRP in Watts (time-averaged, including tune-up tolerance)

TEST REPORT

Report Reference. No.: 80260100018001

3.3 RF Exposure Evaluation Method

• FCC (MPE Calculation Method)

RF exposure levels are calculated using the Friis transmission equation:

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

Where:

- P_d = Power density (mW/cm²)
- P_{out} = Output power (mW)
- G = Antenna gain (linear)
- r = Separation distance (cm)

• ISED (EIRP-Based Exemption Method)

RF exposure compliance is evaluated based on comparison of:

- Maximum time-averaged EIRP (including tune-up tolerance)
- Applicable exemption limit (Section 6.6)

No power density calculation is required if exemption criteria are met.

• Test Results

Protocol: Wi-Fi 2.4 GHz

Antenna Gain: 2.01 dBi

Gain (Linear): 1.59

Frequency (MHz)	Max. Conducted Power (dBm)	Tune-up (dB)	Max Power incl. Tune-up (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Separation Distance (cm)	Power Density (mW/cm ²)	FCC Limit (mW/cm ²)	ISED Limit (W)
2437	15.7	1	16.7	2.01	18.71	0.074	20	0.0148	1	2.68

• Calculation

• FCC Calculation

$$P_{out} = 10^{(16.70/10)} = 46.77 \text{ mW}$$

$$G = 10^{(2.01/10)} = 1.59$$

$$P_d = \frac{46.77 \times 1.59}{4\pi(20)^2}$$

$$P_d = 0.0148 \text{ mW/cm}^2$$

• ISED Calculation (Section 6.6)

$$\text{EIRP} = 16.70 + 2.01 = 18.71 \text{ dBm}$$

$$\text{EIRP} = 10^{(18.71/10)}/1000 = 0.074 \text{ W}$$

$$\text{Limit} = 1.31 \times 10^{-2} \times (2437)^{0.6834}$$

$$\text{Limit} = 2.68 \text{ W}$$

TEST REPORT



Report Reference. No.: 80260100018001

4 Results Summary

- FCC Compliance

The calculated power density at a separation distance of 20 cm is:
0.0148 mW/cm², which is below the limit of 1.0 mW/cm²

Therefore, the device complies with FCC RF exposure requirements.

- ISED Compliance (RSS-102 Issue 6, Section 6.6)

Maximum EIRP: 0.074 W
Exemption Limit: 2.68 W

Since the maximum EIRP is well below the exemption limit, the device qualifies for RF exposure exemption.

Therefore:

- Detailed RF exposure evaluation is not required
- SAR evaluation is not required

5 Conclusion

The EUT complies with the RF exposure requirements of:

- FCC 47 CFR §2.1091
- FCC 47 CFR §1.1310
- FCC KDB 447498 D01
- ISED RSS-102 Issue 6 (Section 6.6)

Based on the above evaluation, the device is compliant for general population / uncontrolled exposure conditions with a minimum separation distance of 20 cm.

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