



SPOT CHECK EVALUATION

FCC ID : 2AW3A-1NAC21ACUCMR
Equipment : EV Charger
Brand Name : RIVIAN
Model Name : PT00057325
Marketing Name : RIVIAN WALL CHARGER
Applicant : Rivian Automotive LLC.
607 Hansen Way, Palo Alto, CA 94304
Manufacturer : Lite-On Technology Corporation
15F , No.555, Siyuan Rd., Xinzhuang Dist.,
New Taipei City, Taiwan (R.O.C.)
Standard : FCC Part 15 Subpart C §15.247

The product was received on Mar. 17, 2022 and testing was performed from Apr. 09, 2022 to May 02, 2022. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this spot check data report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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History of this test report

Version	Description	Issued Date
01	Initial issue of report	Sep. 14, 2022



1. Introduction Section

Rivian Automotive LLC., hereby declares that the WLAN and Bluetooth hardware and digital circuit of 2AW3A-1NAC21ACUCMR are identical to 2AW3A-1NAC21ACUCM.

Therefore the following report of 2AW3A-1NAC21ACUCM may be used as reference test data for 2AW3A-1NAC21ACUCMR, along with the spot check verification data following the FCC KDB 484596 D01 v01.

The applicant should take full responsibility that the test data as referenced in this report represent compliance for this FCC ID: 2AW3A-1NAC21ACUCMR.



2. Difference Section

Difference between 2AW3A-1NAC21ACUCM and 2AW3A-1NAC21ACUCMR:

Rivian Automotive LLC. declares that 2AW3A-1NAC21ACUCMR does not support WWAN Function. All WWAN components have been deprecated. There is no difference between 2AW3A-1NAC21ACUCM and 2AW3A-1NAC21ACUCMR in terms of WLAN and Bluetooth.



3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results Similar to the original FCC ID. Detail spot check test result can be found in the variant model report, please refer to detail section table in section 4.

Summary of the spot check:

Test Item	Mode	2AW3A-1NAC21ACUCM Worst Result	2AW3A-1NAC21ACUCMR Worst Result	Difference (dB)
Average Conducted Power (dBm)	BLE	-3.86	-4.24	0.38
Peak Conducted Power (dBm)	WLAN 2.4G	20.7	20.6	0.1
Radiated Spurious Emission (Band Edge) (dBuV/m)	BLE	43.81	45.35	-1.54
	WLAN 2.4G	44.96	41.98	2.98
Radiated Spurious Emission (Harmonic) (dBuV/m)	BLE	42.46	39.07	3.39
	WLAN 2.4G	47.44	48.87	-1.43



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID	Reference Title
Part 15C	DTS	Bluetooth – LE WLAN	2400 – 2483.5	2AW3A-1NAC21ACUCM	Part 15C (FR230116A, FR230116B)



5. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Apr. 26, 2022~ May 02, 2022	Jan. 06, 2023	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Apr. 26, 2022~ May 02, 2022	Oct. 08, 2022	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz ~ 18GHz	Mar. 10, 2022	Apr. 26, 2022~ May 02, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	Apr. 26, 2022~ May 02, 2022	Nov. 29, 2022	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 10, 2021	Apr. 26, 2022~ May 02, 2022	Dec. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2021	Apr. 26, 2022~ May 02, 2022	Nov. 09, 2022	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-30 3	17100018000 55007	1GHz~18GHz	Jun. 16, 2021	Apr. 26, 2022~ May 02, 2022	Jun. 15, 2022	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Apr. 26, 2022~ May 02, 2022	Jun. 21, 2022	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Apr. 26, 2022~ May 02, 2022	Oct. 14, 2022	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 15, 2021	Apr. 26, 2022~ May 02, 2022	Jul. 14, 2022	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 26, 2022~ May 02, 2022	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Apr. 26, 2022~ May 02, 2022	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 26, 2022~ May 02, 2022	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Apr. 26, 2022~ May 02, 2022	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 10, 2022	Apr. 26, 2022~ May 02, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 10, 2022	Apr. 26, 2022~ May 02, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30MHz-18GHz	Mar. 10, 2022	Apr. 26, 2022~ May 02, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	811852/4	30MHz-18GHz	Mar. 10, 2022	Apr. 26, 2022~ May 02, 2022	Mar. 09, 2023	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN11	1.53G Low Pass	Sep. 13, 2021	Apr. 26, 2022~ May 02, 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN3	3GHz High Pass Filter	Sep. 13, 2021	Apr. 26, 2022~ May 02, 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40SS	SN3	6.75GHz High Pass Filter	Sep. 13, 2021	Apr. 26, 2022~ May 02, 2022	Sep. 12, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-900- 1000-15000-60 SS	SN12	1GHz High Pass Filter	Nov. 04, 2021	Apr. 26, 2022~ May 02, 2022	Nov. 03, 2022	Radiation (03CH11-HY)
Hygrometer	TECEPEL	DTM-303B	TP140325	N/A	Nov. 26, 2021	Apr. 26, 2022~ May 02, 2022	Nov. 25, 2022	Radiation (03CH11-HY)
Hygrometer	TECEPEL	DTM-303B	TP200880	N/A	Sep. 30, 2021	Apr. 26, 2022~ May 02, 2022	Sep. 29, 2022	Radiation (03CH11-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Apr. 09, 2022	Aug. 29, 2022	Radiation (03CH11-HY)