

Report No.: SZEM191102057105

Page: 1 of 9

RF Exposure Evaluation Report

Application No.: SZEM1911020571CR

Applicant: UAB Teltonika

Address of Applicant: Saltoniskiu g.9B LT-08105, Vilnius, Lithuania

Manufacturer: UAB Teltonika

Address of Manufacturer: Saltoniskiu g.9B LT-08105, Vilnius, Lithuania

Factory: UAB Teltonika

Address of Factory: Saltoniskiu g.9B LT-08105, Vilnius, Lithuania

EUT Name: LTE Router Model No.: RUTX11 Trade mark: Teltonika

 FCC ID:
 2AET4RUTX11

 Standards:
 47 CFR Part 1.1307

 47 CFR Part 1.1310

47 CFR Part 2.1091

Date of Receipt: 2019-11-25

Date of Test: 2019-11-29 to 2019-12-13

Date of Issue: 2020-02-11

Test Result : PASS*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM191102057105

Page: 2 of 9

1 Version

Revision Record							
Version	Version Chapter Date Modifier						
01		2020-02-11		Original			

Authorized for issue by:		
	Hay Un	
	Harry Wu /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	-



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Report No.: SZEM191102057105

Page: 3 of 9

2 Contents

		Page
1	VERSION	2
2	CONTENTS	3
3	GENERAL DESCRIPTION OF EUT	4
3.	.1 TEST LOCATION	6
3.	.2 Test Facility	6
	3 DEVIATION FROM STANDARDS	6
3.	.4 ABNORMALITIES FROM STANDARD CONDITIONS	6
3.	.5 OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
4	RF EXPOSURE EVALUATION	7
4.	.1 RF Exposure Compliance Requirement	7
	4.1.1 Limits	7
	4.1.2 Test Procedure	7
4.	1.3 EUT RF Exposure Evaluation	8-9



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Report No.: SZEM191102057105

Page: 4 of 9

3 General Description of EUT

Power Supply:	DC 12V					
	AC/DC Adapter					
	Mode: SJ-12	015033				
	Input: AC100-240V, 50/60Hz, 0.8A					
	Output: DC 12V, 1.5A					
Cable:	DC Cable: 12	20cm, Unshielded				
	Network Cab	le: 150cm, Unshielded				
	BT Antenna:	150cm, Unshielded				
	GPS Antenna	a: 300cm, Unshielded				
For BLE:	•	,				
Operation Frequency:	2402MHz~24	I80MHz				
Bluetooth Version:	V 4.0					
Modulation Type:	GFSK					
Number of Channel:	40					
Antenna Type:	External Ante	enna				
Antenna Gain:	3dBi					
For 2.4G wifi:						
Operation Frequency:	IEEE 802.11	o/g/n(HT20): 2412MHz to 246	2MHz			
	IEEE 802.11	n(HT40): 2422MHz to 2452MH	Hz			
Channel Numbers:		b/g, IEEE 802.11n HT20: 11 C	Channels			
	IEEE 802.11	n HT40: 7 Channels				
Channel Separation:	5MHz	5MHz				
Type of Modulation:		.11b: DSSS(CCK,DQPSK,DB	,			
		.11g : OFDM(64QAM, 16QAM	,	_		
		.11n(HT20 and HT40) : OFDN	Л (64QAM, 16QAN	۸,		
Antonio Timo	QPSK,BPSK	/				
Antenna Type:	External Ante					
Antenna Gain:		dBi, Antenna 2: 5dBi				
For 5G wifi:	I wo antenna	s can not synchronous transm	ission.			
For 5G will.	Τ					
	Band	Mode	Frequency	Number		
		Mode	Range(MHz)	of		
			- , ,	channels		
Operation Frequency:	UNII Band	IEEE 802.11a	5180-5240	4		
		IEEE 802.11n/ac 20MHz	5180-5240	4		
		IEEE 802.11n/ac 40MHz	5190-5230	2		
		IEEE 802.11ac 80MHz	5210	1		
			_			



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Report No.: SZEM191102057105

Page: 5 of 9

	UNII Band	IEEE 802.11a	5745-5825	5	
		IEEE 802.11n/ac 20MHz	5745-5825	5	
		IEEE 802.11n/ac 40MHz	5755-5795	2	
		IEEE 802.11ac 80MHz	5775	1	
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Antenna type:	External Ante	enna			
Antenna gain	Antenna 1:50	IBi; Antenna 2:5dBi			
	Two antenna	s can not synchronous transm	ission.		
For 3G/LTE:					
Band:	WCDMA BAND II, BAND IV, BAND V				
	LTE BAND 2	,4,5,7,12,13,25,26,30,66			
Antenna type:	External Antenna				
Antenna gain	WCDMA BAI	ND II:2dBi, BAND IV:2dBi, BAN	ND V:3dBi		
	LTE BAND 2:2dBi, BAND 4:2dBi, BAND 5:3dBi,				
	BAND 7:2dBi, BAND 12:3dBi, BAND 13: 3dBi,				
	BAND 25:2dl	Bi, BAND 26: 3dBi, BAND 30: 0	Bi, BAND 26: 3dBi, BAND 30: 0dBi,		
	BAND66:2dE	Bi			



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Report No.: SZEM191102057105

Page: 6 of 9

3.1 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

· A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.3 Deviation from Standards

None.

3.4 Abnormalities from Standard Conditions

None.

3.5 Other Information Requested by the Customer

None.



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Report No.: SZEM191102057105

Page: 7 of 9

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)	
(A) Lim	its for Occupational	/Controlled Exposu	res		
0.3–3.0	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6	
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure		
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30	

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*Pi*R^2)$

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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Report No.: SZEM191102057105

Page: 8 of 9

4.1.3 EUT RF Exposure Evaluation

Remark: The Bluetooth, Wifi WCDMA and LTE functions can't synchronous transmission at the same time.

The RF Exposure Evaluations of WCDMA and LTE are referred to report: SZEM180500453602.

For BLE

Antenna: 3dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Antenna	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
		(MHz)	Peak Output	to Antenna	at R = 20 cm	(mW/cm2)	
			Power (dBm)	(mW)	(mW/cm2)		
Hightest	1	2480MHz	9.65	9.23	0.004	1.0	PASS

Note: Refer to report No. SZEM191102057102 for EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 2.4G WIFI

Antenna 1: 5dBi, Antenna 2: 5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.16 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Antenna	Frequency	Max Conducted	Output Power	Power Density	Limit	Result
		(MHz)	Peak Output	to Antenna	at R = 20 cm	(mW/cm2)	
			Power (dBm)	(mW)	(mW/cm2)		
Low	1	2412MHz	20.49	111.94	0.07	1.0	PASS

Note: Refer to report No. SZEM191102057103 for EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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Report No.: SZEM191102057105

Page: 9 of 9

For 5GHz WIFI

Antenna 1:5dBi; Antenna 2:5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.16in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Antenna	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)		Peak Output	to Antenna	at R = 20 cm	(mW/cm2)	
		Power (dBm)	(mW)	(mW/cm2)		
5240 MHz	1	14.55	28.51	0.018	1.0	PASS

Note: Refer to report No. SZEM191102057104 for EUT test Max Conducted Peak Output Power value. The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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