

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100048103

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RF EXPOSURE EVALUATION REPORT

Application No.: FYCR2211000481AT

Applicant: Leax Arkivator Telecom USA Inc.

Address of Applicant: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States

Manufacturer: Leax Arkivator Telecom USA Inc.

Address of Manufacturer: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States

Factory: Leax Arkivator Telecom USA Inc.

Address of Factory: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States

Equipment Under Test (EUT):

EUT Name: LTE Outdoor CPE

Model No.: LCE122A

Trade Mark: N/A

FCC ID: 2AVFNLCE122A

Standard(s): FCC Rules 47 CFR §2.1091

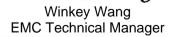
KDB 447498 D04 interim General RF Exposure Guidance v01

Date of Receipt: 2022-11-16

Date of Evaluation: 2022-11-16 to 2023-02-03

Date of Issue: 2023-02-07

Evaluation Result: Pass*



WinkeyWarg



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



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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2023-02-08		Original	

Authorized for issue by:		
	Tree Zhan	
	Tree Zhan/Project Engineer	-
	WinkeyWarg	
	Winkey Wang/Reviewer	_



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3 General Information

3.1 General	Description	of	E.U	J.T
-------------	-------------	----	-----	-----

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	☐ Portable device
Product Type:	
	☐ Fixed device

3.2 Details of E.U.T.

Power supply: POE Passive Injector powered by Adapter

Adapter Model No.: ASSA107A-240050

Input: AC 100-240V; 50/60Hz; Output: DC 24V 500mA

EUT Powered by POE Passive Injector;

POE Model: GRT-HCQ-A

Cable(s): Network cable: unshielded 100.5cm

Cable of Adapter: unshielded 125.5cm

EUT Type: CPE-CBSD Category of EUT: Category B

LTE Operation Frequency Band: LTE FDD Band 48

LTE CA Band: Non-contiguous: 10+10 MHz; 10+20 MHz; 20+10 MHz; 20+20MHz

Contiguous: 10+20 MHz; 20+10 MHz; 20+20MHz

Modulation Type: QPSK, 16QAM, 64QAM

Antenna Type: Panel Antenna

Ant 0: 15.6dBi

Antenna Gain: Ant 2: 15.6dBi

Single-carrier: Ant 0 and Ant 2 can Simultaneous transmission

CA: Ant 0 and Ant 2 is used for transmitting antennas.

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.3 Separation Distance

Minimum test separation distance: 27cm

Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.



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3.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.5 Test Facility

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

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 FCC Radiofrequency radiation exposure limits

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
Limits for General Population/Uncontrolled Exposure								
0.3-1.34	614	1.63	*(100)	30				
1.34-30 824/f		2.19/f	*(180/f2)	30				
30-300	27.5	0.073	0.2	30				
300-1500	/	/	f/1500	30				
1500-100,000	/	/	1.0	30				



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report FYCR221100048102 and Tune up procedure.

Antenna Gain: ANT 0/2: 15.6dBi

MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

1)P (mW)

2)R = distance to the center of radiation of antenna (in centimeter)

3)MPE limit = 1mW/cm²

Test Mode	Frequency Band (MHz)	Max Conducted power (dBm)	Max E.I.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm²)	Limit of Power Density S(mW/cm ²)	Result
LTE Band 48	PCC 3620.1 + SCC 3645.5	23.00	38.60	27	0.79	1.00	Pass

-- End of the Report--



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