

Report No.: SEWM2303000098RG04

Rev.: 01

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TEST REPORT

Application No.: SEWM2303000098RG
Applicant: EBSCO Industries Inc., DBA PRADCO Outdoor Brands
Address of Applicant: 2600 Corporate Drive., Suite 250 Birmingham, AL.35242
Manufacturer: SERCOMM CORPORATION
Address of Manufacturer: 8F, 3-1, YuanQu St., NanKang, Taipei 115, Taiwan
EUT Description: EDGE PRO
Model No.: MCG-14080
Trade Mark: MOULTRIE MOBILE
FCC ID: 2AJQ6MCG-14080
Standards: 47 CFR Part 2.1091
FCC KDB 447498 D01 v06
Date of Receipt: 2023/03/30
Date of Issue: 2023/04/21

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun

Panta Sun
Wireless Laboratory Manager



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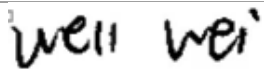
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/04/21		Original

Prepared By		 (Nick Hu) / Test Engineer
Checked By		 (Well Wei) / Reviewer



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2 General Information

2.1 Client Information

Applicant:	EBSCO Industries Inc., DBA PRADCO Outdoor Brands
Address of Applicant:	2600 Corporate Drive., Suite 250 Birmingham,AL.35242
Manufacturer:	SERCOMM CORPORATION
Address of Manufacturer:	8F, 3-1, YuanQu St., NanKang, Taipei 115, Taiwan

2.2 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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2.3 General Description of EUT

EUT Description:	EDGE PRO		
Model No.:	MCG-14080		
Trade Mark:	MOULTRIE MOBILE		
Hardware Version:	V1.0		
Software Version:	V1.2.01		
Antenna Type:	Fixed External Antenna		
Antenna Gain:	WCDMA Band II:	3.57dBi (Ant0)	WCDMA Band IV: 3.57dBi (Ant0)
	WCDMA Band V:	-0.38dBi (Ant0)	
	LTE Band 2:	3.57dBi (Ant0)	LTE Band 4: 3.57dBi (Ant0)
	LTE Band 5:	-0.38dBi (Ant0)	LTE Band 12: -1.43dBi (Ant0)
	LTE Band 13:	-0.38dBi (Ant0)	LTE Band 25: 3.57dBi (Ant0)
	LTE Band 26:	-0.38dBi (Ant0)	
	BLE:	4.89dBi (Ant0)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			



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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is 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.



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3.1.2 Test Procedure

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

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	conclusion
WCDMA Band II	1852.4	3.57	25.00	28.57	33.00	0.1431	1.0000	Pass
WCDMA Band IV	1712.4	3.57	25.00	28.57	30.00	0.1431	1.0000	Pass
WCDMA Band V	826.4	-0.38	25.00	22.47	38.45	0.0576	0.5509	Pass
LTE Band 2	1850.7	3.57	25.00	28.57	33.00	0.1431	1.0000	Pass
LTE Band 4	1710.7	3.57	25.00	28.57	30.00	0.1431	1.0000	Pass
LTE Band 5	824.7	-0.38	25.00	22.47	38.45	0.0576	0.5498	Pass
LTE Band 12	699.7	-1.43	25.00	21.42	34.77	0.0453	0.4665	Pass
LTE Band 13	779.5	-0.38	25.00	22.47	34.77	0.0576	0.5197	Pass
LTE Band 25	1850.7	3.57	25.00	28.57	33.00	0.1431	1.0000	Pass
LTE Band 26(814-824)	814.7	-0.38	25.00	22.47	NA	0.0576	0.5431	Pass
LTE Band 26(824-849)	824.7	-0.38	25.00	22.47	38.45	0.0576	0.5498	Pass
BLE	2402.0	4.89	6.00	10.89	30.00	0.0024	1.0000	Pass

---End of Report---



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