

RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2511004852AT
Applicant: Optix Technologies, LLC.
Address of Applicant: 9 Waverly Alabama 36879 United States
Manufacturer: SEACOMP Displays Inc
Address of Manufacturer: 2546 Gateway Road Carlsbad, CA 92009 U.S.A
Factory: Milli-Henry Electronics CO., Ltd
Address of Factory: Room 101, No. 79, Juxiang 1 st Road, Dalang Town, Dongguan City, Guangdong Province, China

Equipment Under Test (EUT):

EUT Name: Precision electrical instrument for measuring/checking flow of liquids
Model No.: LWX-001, BSX-001, BPX-001 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:



FCC ID: 2BTDKBLBCOMB001
Standard(s) : FCC Rules 47 CFR §2.1091
 KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2025-11-06
Date of Evaluation: 2025-12-18 to 2026-05-12
Date of Issue: 2026-05-12

Evaluation Result:

Pass*

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100485205

Page: 2 of 12

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-05-12		Original

Authorized for issue by:				
		Leo Li		
		Leo Li/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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1 Contents

	Page
1 Cover Page	1
1 Contents	3
2 General Information.....	4
2.1 General Description of E.U.T.....	4
2.2 Details of E.U.T.....	4
2.3 Separation Distance	7
2.4 Test Location	8
2.5 Test Facility.....	8
2.6 Deviation from Standards.....	8
2.7 Abnormalities from Standard Conditions.....	8
3 FCC Radiofrequency radiation exposure limits	9
3.1 RF Exposure Compliance Requirement.....	9
3.1.1 Limits	9
4 Measurement and Calculation	11
4.1 Maximum transmit power	11



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2 General Information

2.1 General Description of E.U.T.

Product Type:	☐ Portable device
	☒ Mobile device
	☐ Fixed device

2.2 Details of E.U.T.

Power supply:	DC 12V
For SUB-G:	
Operation Frequency:	905-925MHz
Modulation Type:	FSK2
Number of Channels:	21
Antenna Type:	FPC Antenna
Antenna Gain:	0.8dBi
For BLE:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.4 LE mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	FPC Antenna
Antenna Gain:	4dBi
For 2.4G WIFI:	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK); 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	4dBi



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100485205

Page: 5 of 12

For LTE:			
CAT-M Frequency Bands:	CAT-M FDD Band 2; CAT-M FDD Band 4 CAT-M FDD Band 5; CAT-M FDD Band 12 CAT-M FDD Band 13; CAT-M FDD Band 17 CAT-M FDD Band 25; CAT-M FDD Band 66		
Testing frequency band:	LTE Band	Uplink (MHz)	Downlink (MHz)
	2	1850-1910	1930-1990
	4	1710-1755	2110-2155
	5	824-849	869-894
	12	699-716	729-746
	13	777-787	746-756
	17	704-716	734-746
	25	1850-1915	1930-1995
	66	1710-1780	2110-2200
Modulation Type:	QPSK, 16QAM		
Antenna Type:	FPC Antenna		
Antenna Gain:	Band 2: 3.4 dBi Band 4: 3.4 dBi Band 5: 3.4 dBi Band 12: 2.9 dBi Band 13: 2.9 dBi Band 17: 2.9 dBi Band 25: 3.4 dBi Band 66: 3.4 dBi		

Remark 1: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark 2: the LTE module has been certified, the FCC ID is 2AAGMGM02SA.



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100485205

Page: 6 of 12

Declaration of EUT Family Grouping:

Model No.: LWX-001, BSX-001, BPX-001

Only the model LWX-001 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on that.

(A.) The BSX-001 will

include all functionality of the LWX-001 GNSS radio can be put into base station mode where the 915MHz radio will transmit an RTK correction stream to other devices.

BSX-001 – Subgig TX only RTK data ,LWX-001 – Subgig RX only RTK data

(B.) Communicates with other OptiX devices using BLE and Wifi (same functionality as mobile app) to send receive commands and transfer files.

Uses the 915MHz radio to receive beacons from other OptiX devices.

BSX-001 – Subgig only RX ,LWX-001– Subgig only TX (C.) The BPX-001 will include all functionality of the LWX-001. The cable exiting the BPX-001 device provides only a sub-set of the conductors included with the LWX-001.



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2.3 Separation Distance

Minimum test separation distance:	20cm
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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2.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

2.5 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 (Member No. 1937)

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.

Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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.

2.6 Deviation from Standards

None

2.7 Abnormalities from Standard Conditions

None



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3 FCC Radiofrequency radiation exposure limits

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



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100485205

Page: 10 of 12

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

Pd 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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4 Measurement and Calculation

4.1 Maximum transmit power

Operating Band	Frequency (MHz)	Maximum Conducted Power [dBm] (including tune up)	Antenna gain [dBi]	ERP/EIRP (mW)	ERP/EIRP Limit (mW)	Ratio	Verdict
SUB-G	925	15.34	0.8	41.1150	1887.00	0.0218	Pass
BLE	2480	6.22	4	10.5196	3060.00	0.0034	Pass
WiFi 2.4G	2437	15.85	4	96.6051	3060.00	0.0316	Pass
LTE B2	1850-1910	25	3.4	691.8310	3060.00	0.2261	Pass
LTE B4	1710-1755	25	3.4	691.8310	3060.00	0.2261	Pass
LTE B5	824-849	25	3.4	691.8310	1680.96	0.4116	Pass
LTE B12	699-716	25	2.9	616.5950	1425.96	0.4324	Pass
LTE B13	777-787	25	2.9	616.5950	1585.08	0.3890	Pass
LTE B17	704-716	25	3.4	691.8310	1436.16	0.4817	Pass
LTE B25	1850-1915	25	3.4	691.8310	3060.00	0.2261	Pass
LTE B66	1710-1780	25	3.4	691.8310	3060.00	0.2261	Pass

Remark:

For SUB-G: The Power Data is based on the RF Test report SZCR251100485202.

For BLE: The Power Data is based on the RF Test report SZCR251000485203.

For WIFI 2.4G: The Power Data is based on the RF Test report SZCR251000485204.

For LTE: The Power Data is based on the RF exposure report NIE: 67117RAN.001.



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Exposure calculations for multiple sources

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	LTE + SUB-G
2	LTE+ WiFi 2.4G/BLE
3	SUB-G + WiFi 2.4G/BLE
4	LTE + SUB-G + WiFi 2.4G/BLE

No.	Mode	ERP/EIRP (mW)	ERP/EIRP Limit (mW)	Result Ratio	Total Ratio	Limit	Result
1	SUB-G	41.1150	1887.00	0.0218	0.5035	1.0000	Pass
	LTE B17	691.8310	1436.16	0.4817			
2	WiFi 2.4G	96.6051	3060.00	0.0316	0.5133	1.0000	Pass
	LTE B17	691.8310	1436.16	0.4817			
3	WiFi 2.4G	96.6051	3060.00	0.0316	0.0534	1.0000	Pass
	SUB-G	41.1150	1887.00	0.0218			
4	SUB-G	41.1150	1887.00	0.0218	0.5351	1.0000	Pass
	WiFi 2.4G	96.6051	3060.00	0.0316			
	LTE B17	691.8310	1436.16	0.4817			

Remark: This LTE Band was recalculated on the worst Band.

-End of the Report-

