

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2112021460AT
Applicant: Nexar Inc.
Address of Applicant: 205 Hudson st, New York, NY 10013, USA
Manufacturer: Nexar Inc.
Address of Manufacturer: 205 Hudson st, New York, NY 10013, USA
Factory: SHENZHEN AONI ELECTRONIC CO.LTD.
Address of Factory: No.5 Bldg., Honghui Industrial Park, 2nd Liuxian Rd., Bao'an, Shenzhen, China

Equipment Under Test (EUT):
EUT Name: nexarOne
Model No.: NXONE-1.1
Trade Mark: nexarOne™
Standard(s) : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091

Date of Receipt: 2021-12-11
Date of Evaluation: 2021-12-11 to 2021-12-21
Date of Issue: 2021-12-21

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2021-12-21		Original

Authorized for issue by			
Tested By			
	<hr/>		
	Curry Wu/Project Engineer		
Reviewed By			
	<hr/>		
	Ricky Liu/Reviewer		



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2 Evaluation Summary

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply: powered by car charger with
 Input:DC12V/24V
 Output: DC5V

For BLE:

Cable(s): Type C cable(Unshielded, 360cm)
 Operation Frequency: 2402MHz to 2480MHz
 Bluetooth Version: V5.0 LE
 Data Rate: 1Mbps, 2Mbps
 Modulation Type: GFSK
 Number of Channels: 40
 Channel Spacing: 2MHz
 Antenna Type: PIFA Antenna
 Antenna Gain: 1.1dBi

For 2.4G:

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz
 Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK)
 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
 Number of Channels: 802.11b/g/n(HT20):11
 Channel Spacing: 5MHz
 Antenna Type: PIFA Antenna
 Antenna Gain: 1.1dBi

For 5G:

Operation Frequency (20MHz): U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz
 Operation Frequency (40MHz): U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz
 Operation Frequency (80MHz): U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz
 Modulation Type: 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
 Channel Spacing: 802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz; 802.11ac(HT80): 80MHz
 DFS Function: Slave without Radar detection
 TPC Function: Without TPC function
 Antenna Type: PIFA Antenna
 Antenna Gain: 1.1dBi



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For WCDMA:

Operation Frequency Band: WCDMA Band II/IV/V
Modulation Type: QPSK for WCDMA
Supported Channel Bandwidth: 5MHz for WCDMA
UMTS Power Class: Level 3
Antenna Type: Dipole Antenna
Antenna Gain: 4dBi

For LTE:

LTE Operation Frequency Band: LTE FDD Band 2, 4, 5, 12, 13
Modulation Type: QPSK, 16QAM
LTE Power Class: Level 3
Antenna Type: Dipole Antenna
Antenna Gain: 4dBi

Based on Module certification(FCC ID: XMR201909EG95NAX)



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4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.3 Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None



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4.5 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure Compliance Requirement

5.1.1 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/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

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.

5.1.2 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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5.1.3 EUT RF Exposure Evaluation

For BLE:

Antenna Gain: 1.1dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
2480	3.79	2.39	0.0006	1.0	PASS

Note: Refer to report No. GZCR211202146001 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 2.4G Wifi:

Antenna Gain: 1.1dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
2462	16.21	41.78	0.0107	1.0	PASS

Note: Refer to report No. GZCR211202146002 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 5GHz Wifi:

Antenna Gain: 1.1dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
5180	12.15	16.41	0.0042	1.0	PASS

Note: Refer to report No. GZCR211202146003 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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For standalone WCDMA/LTE

Based on Module certification(FCC ID: XMR202008EG95NAXD), refer to the Module certification XMR202008EG95NAXD for WCDMA/LTE Module test Max Conducted Peak Output Power value.

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

For WCDMA:

Operation Band	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
2	25	316.23	0.1580	1.0000	0.1580	PASS
4	25	316.23	0.1580	1.0000	0.1580	PASS
5	25	316.23	0.1580	0.5509	0.2868	PASS

For LTE:

Operation Band	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
2	25	316.23	0.1580	1.0000	0.1580	PASS
4	25	316.23	0.1580	1.0000	0.1580	PASS
5	25	316.23	0.1580	0.5509	0.2868	PASS
12	25	316.23	0.1580	0.4665	0.3387	PASS
13	25	316.23	0.1580	0.5197	0.3040	PASS

The simultaneous transmission result between of BT/ WiFi and WCDMA/LTE module:

The SAR Exclusion Threshold Level:

$$=CPD1 / LPD1 + CPD2 / LPD2$$

(CPD = Calculation power density, LPD = Limit of power density)

$$= 0.0107 + 0.3387 = 0.3494 < 1$$

Since the SAR Exclusion Threshold Level is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.



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Remark:

1. For the operation mode above, BT refers to maximum power of BLE, and WIFI refers to the maximum power in 2.4G band and 5GHz band. In this case, power for 2.4G band is greater than BLE, and WIFI in 5GHz band, therefore, the maximum ones were taken for final MPE ratio consideration.
2. For WCDMA & LTE, the maximum power including tune up was taken into consideration.

6 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for GZCR2112021460AT

- End of the Report -



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