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MPE REPORT

Manufacturer: **Nextfour Solutions Oy**
Kaurakatu 48b
20740 Turku Varsinais-suomi FINLAND

Applicant: **Same as Above**

Product Name: **WiFi/BT M.2 Module**
Cellular Modem

Product Description: **Wi-Fi/BT Module**
Cellular Modem

Model: **9260NGW**

FCC ID: **2AYT7-9260**

Testing Commenced: **2024-02-14, 2021-05-19**

Testing Ended: **2025-01-28, 2021-06-09**

Test Results: **In Compliance**

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:

- **KDB447498**



Order No(s): F2P24629, F2P31257B

Applicant: Nextfour Solutions Oy
Model: 9260NGW

Evaluation Conducted by:

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Report Reviewed by:

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1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved by
F2P31257B-03E	First Issue	2025-01-30	K. Littell



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2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
None



Order No(s): F2P24629, F2P31257B

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3 ENGINEERING STATEMENT

This report has been prepared on behalf of Nextfour Solutions Oy to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.

4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: WiFi/BT M.2 Module, Cellular Modem

Model: 9260NGW

Serial No.: None Specified

FCC ID: 2AYT7-9260

4.2 Trade Name:

Nextfour Solutions Oy

4.3 Power Supply:

Meanwell GST90A12, s/n SC211I1435

4.4 Applicable Rules:

- KDB447498

4.5 Equipment Category:

Radio Transmitter-DTS

4.6 Antenna:

2J Antennas Monopole model 2JP0202

4.7 Accessories:

N/A

4.8 Test Item Condition:

The equipment to be tested was received in good condition.



5 RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements: **Distance used is 20cm**

Limit: 1mW/cm² for frequencies 1500–100000 MHz
F/1500 for frequencies 300 - 1500

Results:

WCDMA Band II - MPE: 1852.4 – 1907.6 MHz; the highest EIRP is 316.23mW.

MPE=16.23mW/5026.55 = **0.063 mW/cm2**. MPE limit = 1 mW/cm2. **MPE Ratio = 0.063/1 = 0.063**

WCDMA Band V - MPE: 826.4 – 846.6 MHz; the highest EIRP is 316.23mW.

MPE=316.23mW/5026.55 = **0.063 mW/cm2**. MPE limit = F/1500=826.4/1500=0.551 mW/cm2.

MPE Ratio = 0.063/0.551 = 0.11

Band 2 - MPE: 1850 – 1910 MHz; the highest EIRP is 371.54mW. MPE = 371.54mW/5026.55 = **0.074 mW/cm2**. MPE limit = 1 mW/cm2. **MPE Ratio = 0.074/1 = 0.074**

Band 4 - MPE: 1710 – 1785 MHz; the highest EIRP is 371.54mW. MPE = 371.54mW/5026.55 = **0.074 mW/cm2**. MPE limit = 1 mW/cm2. **MPE Ratio = 0.074/1 = 0.074**

Band 12 - MPE: 698 – 716 MHz; the highest EIRP is 316.23mW. MPE=316.23mW/5026.55 = 0.063 mW/cm2. MPE limit = F/1500=826.4/1500=0.551 mW/cm2 **MPE Ratio = 0.063/0.551 = 0.114**

Band 17 - MPE: 704 – 716 MHz; the highest EIRP is 316.23mW. MPE=316.23mW/5026.55 = 0.063 mW/cm2. MPE limit = F/1500=826.4/1500=0.551 mW/cm2 **MPE Ratio = 0.063/0.551 = 0.114**

2.4 GHz Wi-Fi –802.11n20 which is the highest - the highest EIRP is 2025mW.

MPE = 2025mW/5026.55 = **0.40 mW/cm2**. MPE limit = 1 mW/cm2. **MPE ratio = 0.40/1 = 0.40**

BLE – the highest EIRP is 21.10mW. MPE = 21.10mW/5026.55 = **0.004 mW/cm2**. MPE limit = 1 mW/cm2. **MPE ratio = 0.004/1 = 0.004**.

Combined MPE Ratio Cellular + Wi-Fi = 0.114 + 0.40 = 0.514 = < 1.

Combined MPE Ratio Cellular + BLE = 0.114 + 0.004 = 0.118 = < 1.