

RF Exposure Statement:

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Client: NovaComm Technologies Inc.
902A,#560 shengxia Rd.ZJ InnoPark,Shanghai,China

Test item: Bluetooth Module

Identification: NVC-MDCS45

FCC Requirement

According to FCC 2.1091, mobile equipment must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310:

Equipment Use	Frequency Range	Power Density [mW/cm ²]	Average Time [min]
General Population / Uncontrolled Exposure	1.5 – 100GHz	1	6

Measurement Result

The maximum measured transmitter power is the following:

Conducted Output Power P _{out} [mW]	Maximum Antenna Gain [dBi]	P _{out} EIRP [mW]	Power Density at 20cm [mW/cm ²]
71	1	84.7	0.015924

Note:

The power density S in mW/cm² is calculated according to the Friis formula: $S = (P_{out} \cdot G) / (4\pi \cdot D^2)$, where
S = power density in mW/cm²

P_{out} = antenna conducted output power in mW

G = antenna gain in linear scale (here: 2.21dBi = 1.66 linear)

D = distance between observation point and radiating structure in cm (here: 20cm)

Conclusion

The device complies with the FCC RF exposure requirements since the maximum transmitter power density is below the FCC limit.

Refer to test report 15051385 001 for more details.