

Information about the Applicant

Applicant:	Radioframe Networks, Inc.
Address:	1120 112th Ave NE, Suite 600
City, State, Zip	Bellevue, WA 98004
Test Requested By:	Steve Peters
Model:	B-Series GSM 1.0
FCC ID:	PURBSERIESGSMNA10
Agent	Radioframe Networks, Inc.
Approval Type	Certification
Equipment Type	Base Station transceiver
Rule Part	22H and 24E

Overview

GSM 850

This base station transceiver is designed for use in the GSM 800 MHz cellular telephone system. The transmitter will operate from 869.2 to 893.8 MHz. The receiver circuit supports 824.2 to 848.8 MHz. The base station operates in the 800 MHz broadband Cellular services as per 47 CFR Part 22 subpart H, 22.901 (d). It meets the requirements of GSM 1900 11.10-1 version 4.19.1 specification for operation in GSM cellular systems except for the output frequency range. This transceiver will in normal mode operate at a nominal output peak power of 16.44 mW per channel at the antenna connector. The power output is reducible to ~0.3 watts..

GSM 1900

This base station transceiver is designed for use in the GSM 1900 MHz cellular telephone system. The transmitter will operate from 1930.4 to 1989.6 MHz. The receiver circuit supports 1850.4 to 1809.6 MHz. The base station operates in the 1900 MHz broadband PCS services as per 47 CFR Part 24 subpart E. It meets the requirements of GSM 1900 11.10-1 version 4.19.1 specification for operation in GSM cellular systems. This base station will in normal mode operate at a nominal power out of 36.98 milliwatts at the antenna connector. The power output is reducible to ~0.3 watts.

Findings

Finding	47 Cfr 2.1033(c)9) Tune-up procedure over the power range, or at specific operating power levels.
Resolution	Information has been provided.
Finding	47 CFR 1.1310 Radiofrequency radiation exposure limits. The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Sec. 1.1307(b), except in the case of portable devices, which shall be evaluated according to the provisions of Sec. 2.1093 of this chapter. Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation." The RF Exposure Exhibit is not correct; PURIRAP10 has different output power characteristics listed in the different tables.
Resolution	New Exhibits have been provided
Finding	47 CFR Sec. 15.19 Labeling requirements. (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90, etc., shall bear the following statement in a conspicuous location on the device: <i>This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.</i>
Resolution	Information has been provided. (GSM-802 Users Manual)

Recommendation

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.

Signature



4/27/2005

Dean Ghizzone, TCB Committee

Opinion

Specification Requirements	Description
15.107	Conducted Power Line Emissions

Opinion: The Equipment meets the intent specified by the requirements listed above

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
FCC 15.109	Radiated Emissions

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report

Reference: Technical Report

Specification Requirements	Description
2.1055, 24.235	Frequency Stability

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report

Reference: Technical Report

Specification Requirements	Description
2.1049, 22.917, 24.238	Occupied Bandwidth

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report

Reference: Technical Report

Specification Requirements	Description
2.1046	Output Power

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
22.917(e), 24.238(a)	ERP

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
2.1051, 22.917, 24.238	Spurious Conducted Emissions - Transmit

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report

Reference: Technical Report

Specification Requirements	Description
15.111(a)	Spurious Conducted Emissions - Receive

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
22.917(e), 24.238(a)	Spurious Radiated Emissions

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
22.917(e), 24.238(a)	Spurious Radiated Emissions – Simultaneous Transmit

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Technical Report

Specification Requirements	Description
2.1091/15.247(b)(5)	RF Exposure

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted MPE estimates demonstrating compliance.

Reference: RF Exposure Exhibit