EXHIBIT 15

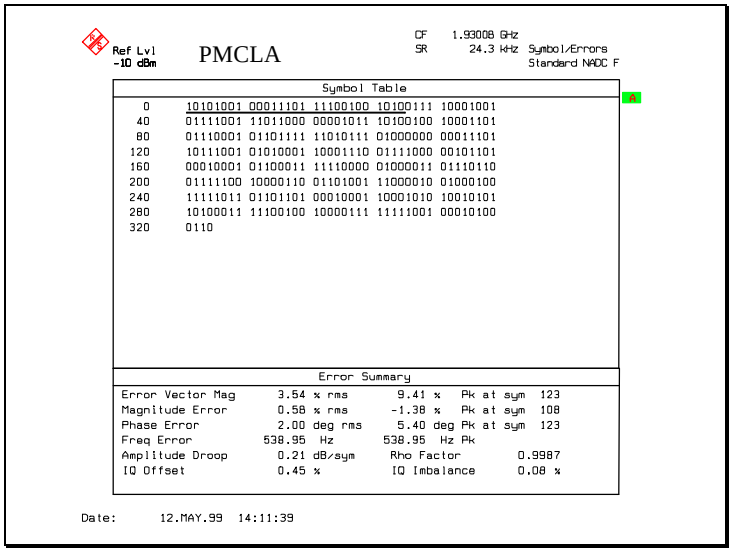
Section 2.1047 Measurements Required: Modulation Characteristics

The TDMA modulation utilized by the PCS-TDMA Dual Radio Module (PDRM) 44WR53, subject of a separate application for certification under AS5CMP-30, is the standard π/4 differentially encoded quadrature phase shift keying (π/4 DQPSK). The modulation accuracy measurements were performed with all 3 TDMA time slots modulated with a pseudo-random bit stream. Measurements were made at the transmit antenna terminal with the single carrier power level set to +30.8 dBm (1.2 Watts), and with the PDRM tuned to 1) the lowest settable PCS channel: A-Block Ch 2 1930.08 MHz, 2) mid PCS Band: B-Block Ch 917 1957.53 MHz, and 3) the highest settable PCS channel: C-Block Ch 1998 1989.96 MHz. The required modulation accuracy is specified in TIA/EIA/IS-138-A, July 1996, Section 3.3.2 Digital and in ANSI J-STD-010-1996, Section 3.3 Modulation Requirements. The "minimum standard", or limitation, is stated that the RMS error vector magnitude shall be less than 12.5%.

Measurements were made with a Rohde & Schwarz Spectrum Analyzer 20 Hz to 26.5 GHz FSEM, Model 1079.8500.30, calibrated as required for ISO-9001 compliance. The measurement results and test set-up block diagram are included.

RESULTS:

The PCS-TDMA Multi Carrier Linear Amplifier, 44WA28, does not contain or incorporate modulation circuitry. This test procedure demonstrates that it also does not degrade the modulation accuracy of the PCS-TDMA Dual Radio Module (PDRM) transceiver, 44WR53. The measurement data below demonstrates full compliance with the modulation accuracy requirements specified in TIA/EIA/IS-138-A and in ANSI J-STD-010-1996. The error vector magnitude is less than 12.5% across the PCS Frequency Band 1930.08 – 1989.96 MHz.



Modulation Accuracy: PCS-TDMA carrier at the transmit antenna terminal
A-Block Channel 2, 1930.08 MHz
Error Vector Magnitude = 3.54% rms

EXHIBIT 15

Ref Lvl
-10 dBm

PMCLA

CF 1.95753 GHz
SR 24.3 kHz Symbol/Errors
Standard NADC F

Symbol Table

0	10101001 00011101 11100100 10101000 11010001
40	01011111 00111111 00011000 01101110 00010111
80	10010000 10101000 01111010 11000010 01100001
120	11001001 10011010 11010111 10001110 11010111
160	11000110 10100011 11110001 00100001 01010010
200	11011011 11110101 11011001 00101010 11110001
240	11111010 10110001 10000100 10000111 10101110
280	10000011 11000101 11000001 01001010 00010100
320	0110

Error Summary

Error Vector Mag	3.61 % rms	9.90 %	Pk at sym 150
Magnitude Error	0.52 % rms	1.51 %	Pk at sym 52
Phase Error	2.05 deg rms	-5.67 deg	Pk at sym 150
Freq Error	546.40 Hz	546.40 Hz	Pk
Amplitude Droop	0.19 dB/sym	Rho Factor	0.9988
IQ Offset	0.60 %	IQ Imbalance	0.20 %

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Modulation Accuracy: PCS-TDMA carrier at the transmit antenna terminal
B-Block Channel 917, 1957.53 MHz
Error Vector Magnitude = 3.61% rms

Ref Lvl
-10 dBm

PMCLA

CF 1.98996 GHz
SR 24.3 kHz Symbol/Errors
Standard NADC F

Symbol Table

0	10101001 00011101 11100100 10100111 10111001
40	00000001 10101110 00111100 00000001 00101111
80	10110111 10111011 01110011 10111110 00011111
120	00110100 00010000 00001010 11011110 11000001
160	10011100 01100011 11110010 11110111 00100101
200	01110000 00000101 00110000 00100110 11001010
240	00001111 01010110 11001001 10100011 11011001
280	11000000 01110010 10001111 11100111 00010100
320	0110

Error Summary

Error Vector Mag	2.97 % rms	9.27 %	Pk at sym 121
Magnitude Error	0.54 % rms	-1.64 %	Pk at sym 105
Phase Error	1.68 deg rms	-5.32 deg	Pk at sym 121
Freq Error	555.69 Hz	555.69 Hz	Pk
Amplitude Droop	0.20 dB/sym	Rho Factor	0.9988
IQ Offset	0.72 %	IQ Imbalance	0.16 %

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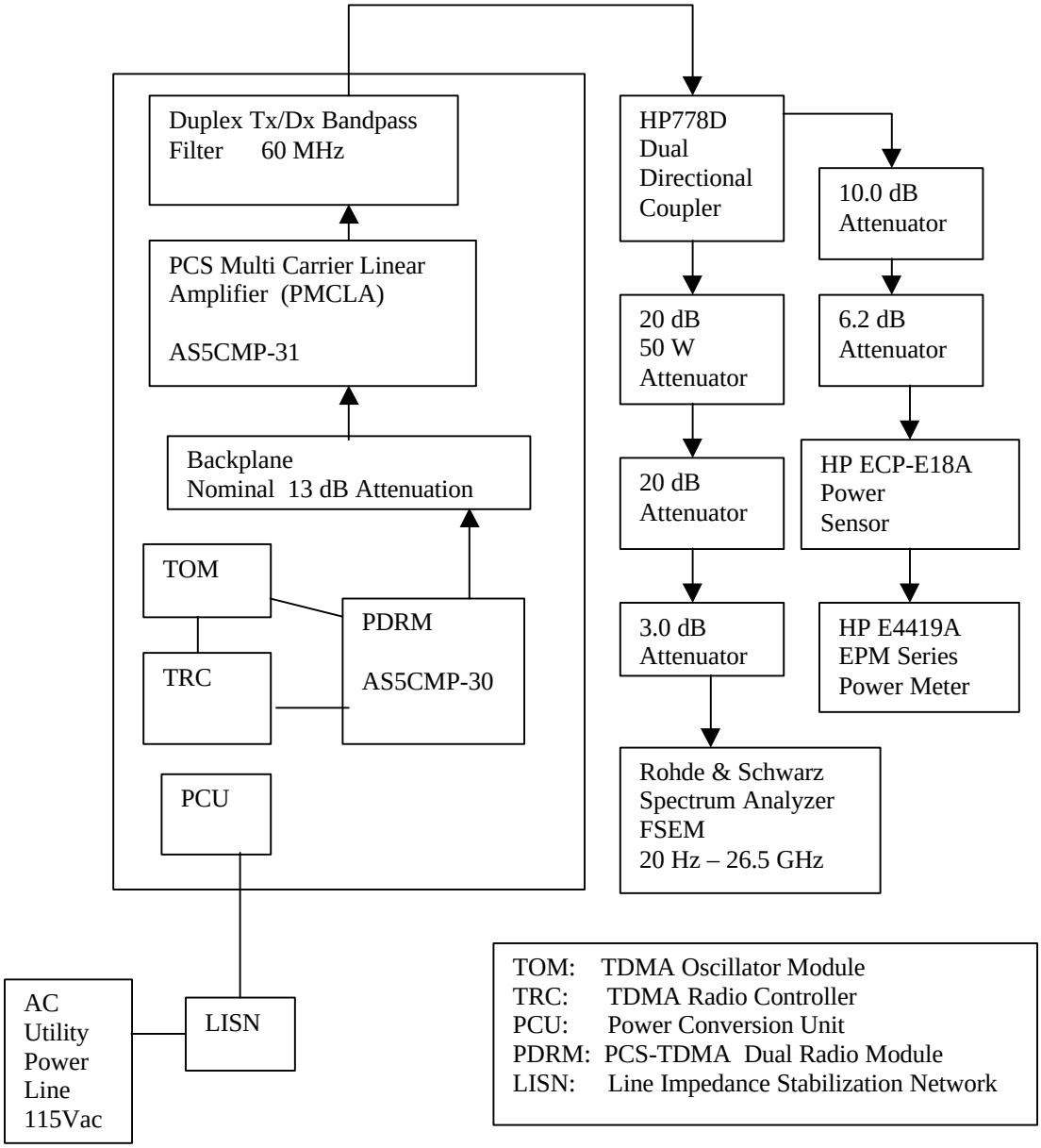
Modulation Accuracy: PCS-TDMA carrier at the transmit antenna terminal
C-Block Channel 1998, 1989.96 MHz
Error Vector Magnitude = 2.97% rms

APPLICANT: Lucent Technologies **FCC ID: AS5CMP-30**

EXHIBIT 15

Test set-up for measuring the modulation accuracy of the PCS-TDMA Dual Radio Module transceiver.

FLEXENT™ PCS-TDMA Microcell J41698A-1



TOM: TDMA Oscillator Module
TRC: TDMA Radio Controller
PCU: Power Conversion Unit
PDRM: PCS-TDMA Dual Radio Module
LISN: Line Impedance Stabilization Network