



Nemko USA, Inc.
Phone (858) 755-5525 Fax (858) 452-1810
11696 Sorrento Valley Rd., Suite F
San Diego, CA 92121-1024

**Certification Test Report:
Class II Permissive Change**

2006 040271-FCC

Applicant:

**Kyocera Wireless Corp.
10300 Campus Point Drive
San Diego, CA 92121
858 449-9835
619 330-4977- fax**

NEEDS SUPERVISOR SIGN OFF

Equipment Under Test:

**Model M200
New Mobile Mark Antenna RMS3-900/1900**

FCC ID:

OVFKWC-M200

In Accordance With:

FCC Part 22, Subpart H, Part 24, Subpart E

Tested By:

**Nemko USA, Inc.
11696 Sorrento Valley Rd., Suite F
San Diego, CA 92121-1024**

Date:

April 21, 2006

Total Number of Pages:

228

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Section 1. Summary of Test Results

General

All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 24, Subpart E.

DOCUMENT HISTORY

REVISION	DATE	COMMENTS
-	April 21, 2006	Prepared By: Alan Laudani
-	April 21, 2006	Initial Release: M. Krumwiede

NOTE: Nemko USA, Inc. hereby makes the following statements so as to conform to Chapter 10 (Test Reports) Requirements of ANSI C63.4 (2001) "Methods and Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz":

- o The unit described in this report was received at Nemko USA, Inc.'s facilities on December 20, 2005 . Testing was performed on the unit described in this report on December 20, 2005 to January 12, 2006 .
- o The Test Results reported herein apply only to the Unit actually tested, and to substantially identical Units.
- o This report does not imply the endorsement of the Federal Communications Commission (FCC), NVLAP or any other government agency.

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CERTIFICATION

Nemko USA, Inc., an independent Electromagnetic Compatibility (EMC) Test Laboratory, produced this Test Report and performed the Radio Frequency Interference (RFI) testing and data evaluation contained herein.

Nemko USA, Inc.'s measurement facility is currently registered with the United States Federal Communications Commission (FCC) in accordance with the provisions of 47 United States Code (CFR) Part 2, Subpart I, Section 2.948(a). A current description of Nemko USA, Inc.'s measurement facility is on file with the FCC. Nemko USA Inc. has additionally satisfied the FCC that it complies with the requirements set forth in 47 CFR Part 2, Subpart I, Section 2.948(d) regarding the accreditation of EMC laboratories. As a result, the FCC has placed Nemko USA Inc. on its list of EMC laboratories approved to perform Declaration of Conformity (DOC) procedure testing.

The RFI testing, test data collection and test data evaluation were accomplished in accordance with the ANSI C63.4-2001 Standard, and in accordance with the applicable sections of the FCC rules (47 CFR Parts 2 and 18)." digital devices. The testing was also accomplished in accordance with Industry Canada's ICES-003 standard for unintentional radiating device per EMCAB-3, Issue 3 (May 1998). The administrative summary of this test report provides a description of the test sample

I hereby certify that the test data, test data evaluation, and equipment configurations used to compile this test report are a true and accurate representation of the test sample's radio frequency interference characteristics as of the test date(s), and, for the design of the test sample.

M. Krumwiede, EMC Manager

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Summary Of Test Data

The intent of this report is to present representative data to conform to a previously tested module and antenna(s). The Center frequency of one Cellular Test Mode is presented as evident of no pronounced changes in emissions.

Name Of Test	Para. No.	Result
RF Power Output	2.1046	PASS
Occupied Bandwidth	2.1049	NOT TESTED
Spurious Emissions at Antenna Terminals	2.1051	NOT TESTED
Field Strength of Spurious Emissions	2.1053	PASS
Frequency Stability	2.1055	NOT TESTED

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Section 2. General Equipment Specification

Manufacturer: Kyocera Wireless Corp.

Model No.: M200

Serial No.: Lab. Test Unit 1

Date Received In Laboratory: April 20, 2006

Nemko Project Identifier: 25-1064-EMC

Frequency Ranges: 824.04 – 849.97 MHz
1851.25—1908.75 MHz

RF Output (Grant-Radiated): 29.5 dBm 0.89 W Cellular
25.4 dBm 0.35 W PCS

RF Output (Measured/Substituted): 25.0 dBm 0.32 W Cellular
26.1 dBm 0.41 W PCS

Emission Designator: 40KDF8W, 1M25F9W

FCC Identifier: OVFKWC-M200

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Section 3. RF Power Output

Para. No.: 2.1046

Test Performed By: Alan Laudani	Date of Test: January 12, 2006
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Minimum Standard: Para. No.: 22,913, 24.232.

Test Results: Pass (within 2 dB of Original Certified Levels)

Measurement Data: Table summarizes data from pages 8--12

Mode	Frequency MHz	Substituted ERP/EIRP dBm	Substituted ERP/EIRP W	Power Level Granted dBm
FM	824.04	24.4		30.4
	836.49	24.2		30.4
	848.97	24.5	0.28	30.4
CDMA	824.70	25.2		30.4
	836.49	24.9		30.4
	848.31	25.0	0.32	30.4
PCS	1851.25	25.8		25.4
	1880.	26.0		25.4
	1908.75	26.1	0.41	25.4

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Substitution Method For Radiated Emissions

Complete Yes Job # : 26-271-KYO Test # : 7
Preliminary Page 1 of 1

Client Name : Kyocera Wireless Corp.
EUT Name : MODULE
EUT Model # : M200
EUT Antenna # : RMS3-900/1899
EUT Serial # :
EUT Config. : Transmit

Specification :	<u>FCC Part 22 & Part 24</u>		Reference :
Rod. Ant. #:	<u>NA</u>	Temp. (deg. C) :	<u>20</u>
Bicon Ant.#:	<u>NA</u>	Humidity (%) :	<u>59</u>
Log Ant.#:	<u>110</u>	EUT Voltage :	<u>na</u>
DRG Ant. #	<u>529</u>	EUT Frequency :	<u>na</u>
Dipole Ant.#:	<u>758</u>	Phase:	<u>na</u>
Cable#:	<u>60ft</u>	Location:	<u>SOATS</u>
Preamp#:	<u>842</u>	Distance:	<u>3m</u>
Spec An.#:	<u>835</u>		
Signal Generator #:	<u>836</u>		

Photo ID:
Peak Bandwidth: RBW-1MHz, VBW-1MHz

Frequency mHz	target level	dipole	cable loss dB	Signal Generator dBm	Total (EIRP) dBm
	dBuV/m				
824.04	99.2	0	3.4	27.8	24.4
836.49	99.1	0	3.4	27.6	24.2
848.97	99.3	0	3.4	27.9	24.5
824.70	100.2	0	3.4	28.6	25.2
836.49	99.7	0	3.4	28.3	24.9
848.31	99.9	0	3.4	28.4	25.0

Frequency mHz	target level	Horn Gain dBi	cable loss dB	Signal Generator dBm	Total (EIRP) dBm
	dBuV/m				
1851.25	94.3	7.8	5.4	23.4	25.8
1880.00	94.4	7.8	5.4	23.6	26.0
1908.75	94.6	7.8	5.5	23.8	26.1

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Radiated Emissions Data

Job # : 26-271-KYO Test # : 1A
Page 1 of 1

Client Name : Kyocera Wireless Corp.
EUT Name : MODULE
EUT Model # : M200
EUT Antenna #: RMS3-900/1900
EUT Serial # :
EUT Config. : FM Tx Harmonics
Emmissions were seached for between 1000 MHz and 9000 MHz
Specification : FCC Part 22
Rod. Ant. # : NA Temp. (°C) : 20 Reference :
Bicon Ant.#: NA Humidity (%) : 59 Date : 4/20/06
Log Ant.#: 110 EUT Voltage : 120 Time :
DRG Ant. # : 877 EUT Frequency : 60 Staff : AAL
Dipole Ant.#: NA Phase: 1 Photo ID:
Cable#: 40ft Location: RN# 90579 Peak Bandwidth: 1 MHz
Preamp#: 842 Distance: 3m Video Bandwidth 1 MHz
Spec An.#: 835
QP #: NA
PreSelect#: NA

Meas. Freq. (MHz)	Vertical	Horizontal	CF (db)	Max Level (dBm) pk		EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
824.04			27.2	-97.3		0.0	1.4		
836.49	1.0		26.9	-97.3		0.0	1.4		
848.98	1.0		27.1	-97.3		0.0	1.4		

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Radiated Emissions Data

Job # : 26-271-KYO Test # : 2A
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Client Name : Kyocera Wireless Corp.
EUT Name : MODULE
EUT Model # : M200
EUT Antenna # : RMS3-900/1900
EUT Serial # : _____
EUT Config. : CDMA Tx Harmonics
Emmissions were seached for between 1000 MHz and 9000 MHz

Specification : FCC Part 22 Reference : _____
Rod. Ant. # : NA Temp. (°C) : 20 Date : 4/20/06
Bicon Ant.#: NA Humidity (%) : 59 Time : _____
Log Ant.#: 110 EUT Voltage : 120 Staff : AAL
DRG Ant. # 877 EUT Frequency : 60 Photo ID: _____
Dipole Ant.#: NA Phase: 1 Peak Bandwidth: 1 MHz
Cable#: 40ft Location: RN# 90579 Video Bandwidth 1 MHz
Preamp#: 842 Distance: 3m
Spec An.#: 835
QP #: NA
PreSelect#: NA

Meas. Freq. (MHz)	Vertical (dBuV) pk	Horizontal (dBuV) pk	CF (db)	Max Level (dBm) pk			EUT Rotation	Ant. Height		Comment
824.70	100.2	95.0	27.2	30.1			0.0	1.4		
836.49	99.7	94.8	26.9	29.3			0.0	1.4		
836.31	99.9	94.8	27.1	29.7			0.0	1.4		

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Section 4. Occupied Bandwidth

Para. No.: 2.1049

Test Performed By:	Date of Test:
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Minimum Standard: Para. No.: 24.238.

Test Results: NOT TESTED

Test Data:

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Section 5. Spurious Emissions at Antenna Terminals

Para. No.: 2.1051

Test Performed By:	Date of Test:
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Minimum Standard: Para. No.: 24.238.

Test Results: NOT TESTED

Test Data:

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Section 6. Field Strength of Spurious

Para. No.: 2.1053

Test Performed By: Alan Laudani	Date of Test: April 20, 2006
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Minimum Standard: Para. No.: 22.917, 24.238.

Test Results: Pass

Test Data: See attached Tables Page 15-17.

Substitution Method For Radiated Emissions							
Complete	<u>Yes</u>		Job # :	<u>26-271-KYO</u>		Test # :	<u> </u>
Preliminary	<u> </u>			Page <u>1</u>	of	<u>1</u>	
Client Name :	<u>Kyocera Wireless Corp.</u>						
EUT Name :	<u>MODULE</u>						
EUT Model # :	<u>M200</u>						
EUT Antenna #:	<u>RMS3-900/1899</u>						
EUT Serial # :	<u> </u>						
EUT Config. :	<u>Transmit</u>						
Specification :	<u>FCC Part 22 & Part 24</u>					Reference :	<u> </u>
Rod. Ant. #:	<u>NA</u>	Temp. (deg. C) :	<u> </u>	Date :	<u>4/20/2006</u>		
Bicon Ant. #:	<u>NA</u>	Humidity (%) :	<u> </u>	Time :	<u> </u>		
Log Ant. #:	<u>110</u>	EUT Voltage :	<u>na</u>	Staff :	<u>A. Laudani</u>		
DRG Ant. #	<u>529</u>	EUT Frequency :	<u>na</u>	Photo ID:	<u> </u>		
Dipole Ant. #:	<u>NA</u>	Phase:	<u>na</u>	Peak Bandwidth:	<u>RBW-1MHz, VBW-1MHz</u>		
Cable#:	<u>60ft</u>	Location:	<u>SOATS</u>		<u> </u>		
Preamp#:	<u>842</u>	Distance:	<u>3m</u>		<u> </u>		
Spec An. #:	<u>835</u>				<u> </u>		
Signal Generator #:	<u>836</u>				<u> </u>		
target	Horn	cable	Signal	Total	Limit	Margin	
Frequency	Gain	loss	Generator	(EIRP)			
mHz	dBi	dB	dBm	dBm	dbm	dB	
level							
dBuV/m							
3702.50	7.94	6.7	-33.50	-32.26	-13	-19.3	
3817.00	7.96	7	-31.30	-30.34	-13	-17.3	

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Radiated Emissions Data

Job # : 26-271-KYO Test # : 1
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Client Name : Kyocera Wireless Corp.
EUT Name : MODULE
EUT Model # : M200
EUT Antenna # : RMS3-900/1900
EUT Serial # :
EUT Config. : FM Tx Harmonics
Emissions were searched for between 1000 MHz and 9000 MHz
Specification : FCC Part 22 Reference :
Rod. Ant. # : NA Temp. (°C) : 20 Date : 4/20/06
Bicon Ant. # : NA Humidity (%) : 59 Time :
Log Ant. # : 111 EUT Voltage : 120 Staff : AAL
DRG Ant. # : 877 EUT Frequency : 60 Photo ID :
Dipole Ant. # : NA Phase : 1 Peak Bandwidth: 1 MHz
Cable # : 40ft Location: RN# 90579 Video Bandwidth: 1 MHz
Preamp # : 842 Distance: 3m
Spec An. # : 835
QP # : NA
PreSelect # : NA

Meas. Freq. (MHz)	Vertical	Horizontal	CF (db)	Max Level (dBm) pk	Spec. Limit (ERP) (dBm) pk	Margin dB pk	EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
824.04										
1648.08	66.1	69.5	-22.3	-50.1	-13.0	-37.1	0.0	1.5	Pass	
2472.12	75.1	75.4	-15.8	-37.7	-13.0	-24.7	0.0	1.2	Pass	
3296.16	68.9	48.3	-10.3	-38.7	-13.0	-25.7	0.0	1.2	Pass	
4120.20	63.6	60.5	-5.0	-38.6	-13.0	-25.6	0.0	1.4	Pass	
4944.24	53.1	53.7	-4.3	-47.8	-13.0	-34.8	0.0	1.3	Pass	
5768.28	52.9	53.9	-0.9	-44.2	-13.0	-31.2	0.0	1.2	Pass	
6592.32	52.9	53.9	1.0	-42.4	-13.0	-29.4	0.0	1.3	Pass	
836.49										
1672.98	69.1	64.2	-22.3	-50.5	-13.0	-37.5	0.0	1.5	Pass	
2509.47	75.9	74.3	-15.0	-36.4	-13.0	-23.4	0.0	1.2	Pass	
3345.96	61.5	63.3	-10.3	-44.3	-13.0	-31.3	0.0	1.2	Pass	
4182.45	57.3	56.2	-5.0	-44.9	-13.0	-31.9	0.0	1.4	Pass	
5018.94	55.5	51.3	-0.2	-41.9	-13.0	-28.9	0.0	1.3	Pass	
5855.43	53.5	51.2	-0.9	-44.6	-13.0	-31.6	0.0	1.2	Pass	
848.98										
1697.96	62.6	62.7	-22.3	-56.9	-13.0	-43.9	0.0	1.5	Pass	
2546.94	76.8	72.4	-15.0	-35.5	-13.0	-22.5	0.0	1.2	Pass	
3395.92	65.1	60.6	-10.3	-42.5	-13.0	-29.5	0.0	1.2	Pass	
4244.90	58.4	55.1	-5.0	-43.8	-13.0	-30.8	0.0	1.4	Pass	
5093.88	61.1	56.9	-0.2	-36.3	-13.0	-23.3	0.0	1.3	Pass	
5942.86	53.2	53.3	-0.9	-44.8	-13.0	-31.8	0.0	1.2	Pass	
6791.84	52.7	52.7	1.0	-43.6	-13.0	-30.6	0.0	1.0	Pass	

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Radiated Emissions Data

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Client Name : Kyocera Wireless Corp.

EUT Name : MODULE

EUT Model # : M200

EUT Antenna #: RMS3-900/1900

EUT Serial # :

EUT Config. : CDMA Tx Harmonics

Emmissions were searched for between 1000 MHz and 9000 MHz

Specification : FCC Part 22

Reference :

Rod. Ant. #: NA Temp. (°C) : 20
Bicon Ant. #: NA Humidity (%) : 59
Log Ant. #: 111 EUT Voltage : 120
DRG Ant. #: 877 EUT Frequency : 60
Dipole Ant. #: NA Phase: 1
Cable#: 40ft Location: RN# 90579
Preamp#: 842 Distance: 3m
Spec An. #: 835
QP #: NA
PreSelect#: NA

Date : 4/20/06
Time :
Staff : AAL
Photo ID:
Peak Bandwidth: 1 MHz
Video Bandwidth: 1 MHz

Meas. Freq. (MHz)	Vertical (dBuV) pk	Horizontal (dBuV) pk	CF (db)	Max Level (dBm) pk	Spec. Limit (ERP) (dBm) pk	Margin dB pk	EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
1649.40	55.8	63.7	-22.3	-55.9	-13.0	-42.9	0.0	1.1	Pass	
2474.10	67.1	67.9	-15.0	-44.4	-13.0	-31.4	0.0	1.1	Pass	
3298.80	61.4	61.7	-10.3	-45.9	-13.0	-32.9	0.0	1.1	Pass	
4123.50	55.9	55.4	-5.0	-46.3	-13.0	-33.3	0.0	1.1	Pass	
4948.20	56.4	53.8	-0.2	-41.0	-13.0	-28.0	0.0	1.1	Pass	
1672.98	81.9	74.6	-22.3	-37.7	-13.0	-24.7	0.0	1.1	Pass	
2509.47	68.1	59.9	-15.0	-44.2	-13.0	-31.2	0.0	1.1	Pass	
3345.96	56.6	57.8	-10.3	-49.8	-13.0	-36.8	0.0	1.1	Pass	
4182.45	58.2	56.6	-5.0	-44.0	-13.0	-31.0	0.0	1.1	Pass	
5018.94	62.1	55.7	-0.2	-35.3	-13.0	-22.3	0.0	1.1	Pass	
1672.62	67.0	67.4	-22.3	-52.2	-13.0	-39.2	0.0	1.1	Pass	
2508.93	69.5	77.6	-15.0	-34.7	-13.0	-21.7	0.0	1.1	Pass	
3345.24	56.0	59.6	-10.3	-48.0	-13.0	-35.0	0.0	1.1	Pass	
4181.55	56.3	55.2	-5.0	-45.9	-13.0	-32.9	0.0	1.1	Pass	
5017.86	57.2	53.8	-0.2	-40.2	-13.0	-27.2	0.0	1.1	Pass	

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Section 7. Frequency Stability

Para. No.: 2.1055

Test Performed By:	Date of Test:
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Minimum Standard: Part 22.917, Part 24.235

Test Results: NOT TESTED

Test Data:

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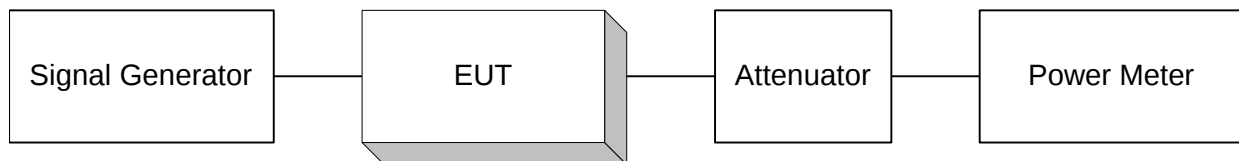
Range Set up Photos



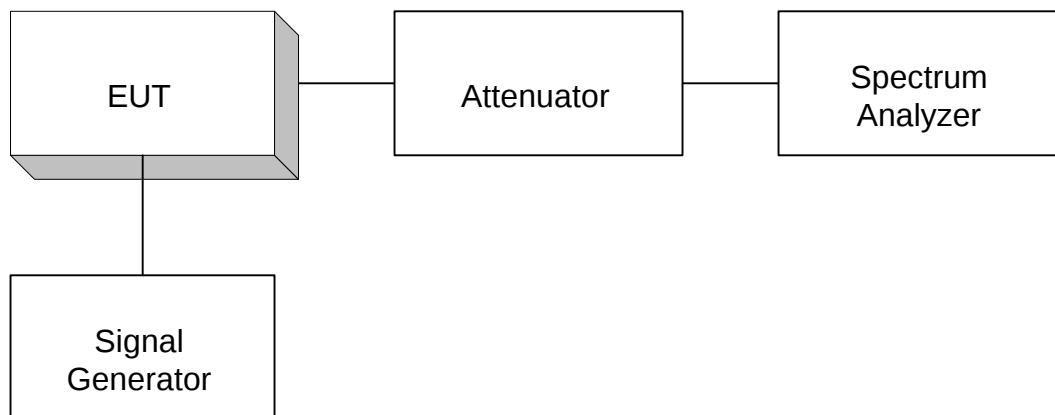
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Section 7. Block Diagrams

Para. No. 1046 - R.F. Power Output

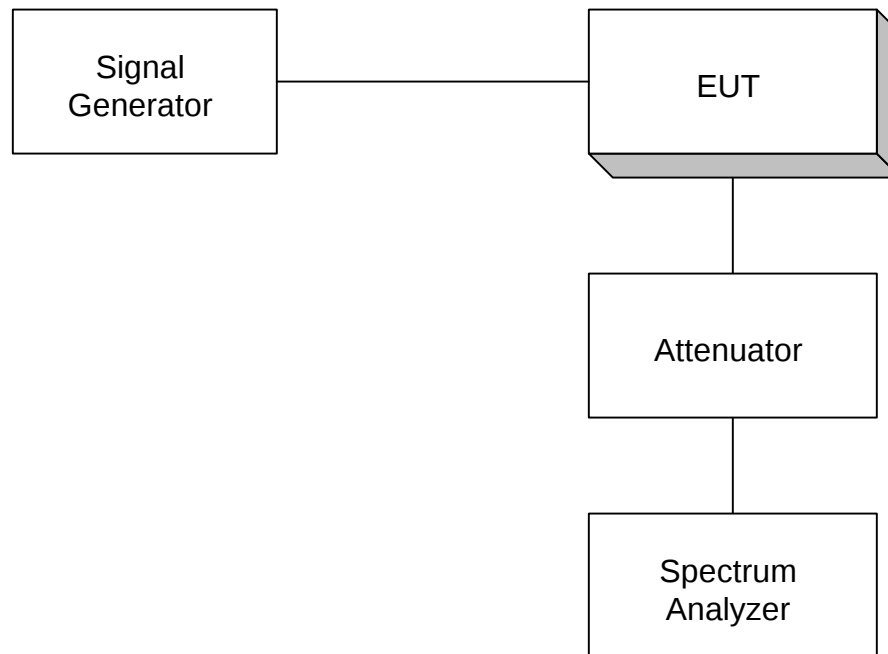


Para. No. 2.1049 - Occupied Bandwidth



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Para. No. 2.1051 - Spurious Emissions at Antenna Terminals



Para. No. 2.1053 - Field Strength of Spurious Radiation

