



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

EMC TEST REPORT

Kyocera Wireless Corp.

PCS Cell Phone

Model: **K27-120**

RADIATED POWER

PER:

FCC, PART 2.1053

FCC, PART 24 SUBPART E

TEST REPORT # 2007 102276 K27-120 FCC

2276-1-EMC

NEMKO USA, INC.
11696 SORRENTO VALLEY ROAD SUITE F
SAN DIEGO, CA 92121
PHONE: 858-755-5525

<i>Nemko USA, Inc.</i>		11696 Sorrento Valley Road, Suite F, San Diego, CA 92121 Phone (858) 755-5525 Fax (858) 452-1810	
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EMC TEST REPORT

**For
Kyocera Wireless Corp.**

Test Number : 2276-1-EMC

Product Name : **PCS Cell Phone**

Regulation : FCC, Part 24, Subpart E

:

Date : January 10, 2007

Report Reviewed

Accepted by:

Kyocera Wireless Corp.
10300 Campus Point Drive
San Diego, CA 92121
Phone: **858-882-3585**
Fax: **619 330-4977**

Report Issued By:



Mike Krumweide, EMC Supervisor


Original written signature of authorized signer

Tested By:

A. Laudani, EMC Test Engineer

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Administrative Data

Regulation : Part 24, Subpart E

Test Method : ANSI C63.4 – 2003
: CSA C108. - M1983
: TIA/EIA 603B

Test Type : Certification
Manufacturer : Kyocera Wireless Corp.
EUT Type : PCS Cell Phone
Model # : K27-120
Date(s) of Test : Jan. 3, 2007 to Jan. 10, 2007
Customer Personnel : Thuy, To

Nemko Personnel : A. Laudani, EMC Test Engineer
:

Test Location : OPEN Area Test Site
Nemko USA, Inc.
11696 Sorrento Valley Road, Suite F
San Diego, CA 92121

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EUT Description

The K27-120 is a PCS Cell Phone. Its function is to provide communication for mobile phone users. The EUT was exercised in PCS transmit modes in open and closed and along all three axis configurations for maximum radiated fundamental power emissions.

DEVICE	MANUFACTURER MODEL # SERIAL #	POWER CABLE
EUT - PCS Cell Phone	Kyocera Wireless Corp. Model: K27-120 SN: FFSM0000000303	N/A
Battery Charger	Kyocera Wireless Corp. Model: TXTVL10101 SN: PREPRODUCTION	2 Prong Plug

CONNECTION	I/O CABLE
Charger to Cell Phone	Two wire stranded, approx. 1.5 m

REASON FOR TEST

The EUT was tested to qualify for FCC Part 24.

CHANGES MADE DURING TEST

The following design modifications were made to the EUT during testing.

No design modifications were made to the EUT during testing.

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CERTIFICATION AND TEST SUMMARY

<i>Test Type</i>	<i>In Accordance with Document</i>	<i>Frequency Range Investigated</i>	<i>EUT Complies</i>
Radiated Spurious Emissions	FCC, Part 24, Subpart E	824 – 21000 MHz	PASS

The PCS Cell Phone complied with FCC Part 24 when tested in the system configuration defined herein.

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DESCRIPTION OF TEST SITE AND EQUIPMENT

Description of Test Site

The test site is located at 11696 Sorrento Valley Road, Suite F, San Diego, CA 92121. The site is physically located 18 miles Northwest of downtown San Diego. The general area is a valley 1.5 miles east of the Pacific Ocean. This particular part of the valley tends to minimize ambient levels, i.e. radio and TV broadcast stations and land mobile communications. The three and ten-meter Open Area Test Site (OATS) is located behind the office/lab building. It conforms to the normalized site attenuation limits and construction specifications as set in the EN 55022: 2006, CISPR 16: 2003 and ANSI C63.4: 2003 documents. The OATS normalized site attenuation characteristics are verified for compliance every year. The facility is NAVLAP accredited.

1. DESCRIPTION OF TESTING METHODS

1.1. Introduction

As required in 47 CFR, Parts 2 and 15, the methods employed to test the radiated and conducted emissions (as applicable) of the EUT are those contained within the American National Standards Institute document ANSI C63.4: 2003, titled "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz." All applicable FCC Rule Sections that provide further guidance for performance of such testing are also observed.

For General Test Configuration please refer to Figure 1 on the following page.

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1.2. Configuration and Methods of Measurements for Radiated Emissions

Section 8 of ANSI C63.4 determines the general configuration and procedures for measuring the radiated emissions of equipment under test. Initially, the primary emission frequencies are identified inside the test lab by positioning a broadband receive antenna one meter from the EUT to locate frequencies of significant radiation. Next, the EUT and associated system are placed on a turntable on a ten meter open area test site (registered with the FCC in accord with its Rules and ANSI C63.4) and the receive antenna is located at a distance of three meters from the EUT.

The EUT and associated system are configured to operate continuously, representing a “normally operating” mode. All significant radiated emissions are recorded when maximum radiation on each frequency is observed, in accordance with part 8 of ANSI C63.4 and Section 15.33 of the FCC Rules. To ensure that the maximum emission at each discrete frequency of interest is observed, the receive antenna is varied in height from one to four meters and rotated to horizontal and vertical polarities, and the turntable is also rotated to determine the worst emitting configuration. The numerical results of the test are included herein to demonstrate compliance.

The numerical results that are applied to the emissions limits are arrived at by the following method:

Example: $A = RR + CL + AF$

A = Amplitude dBuV/M

RR = Receiver Reading dBuV

CL = cable loss dB

AF = antenna factor dBm-1

Example Frequency = 110MHz

18.5 dBuV (spectrum analyzer reading)

+3.0 dB (cable loss @ frequency)

21.5 dBuV

+15.4 dBm-1 (antenna factor @ frequency)

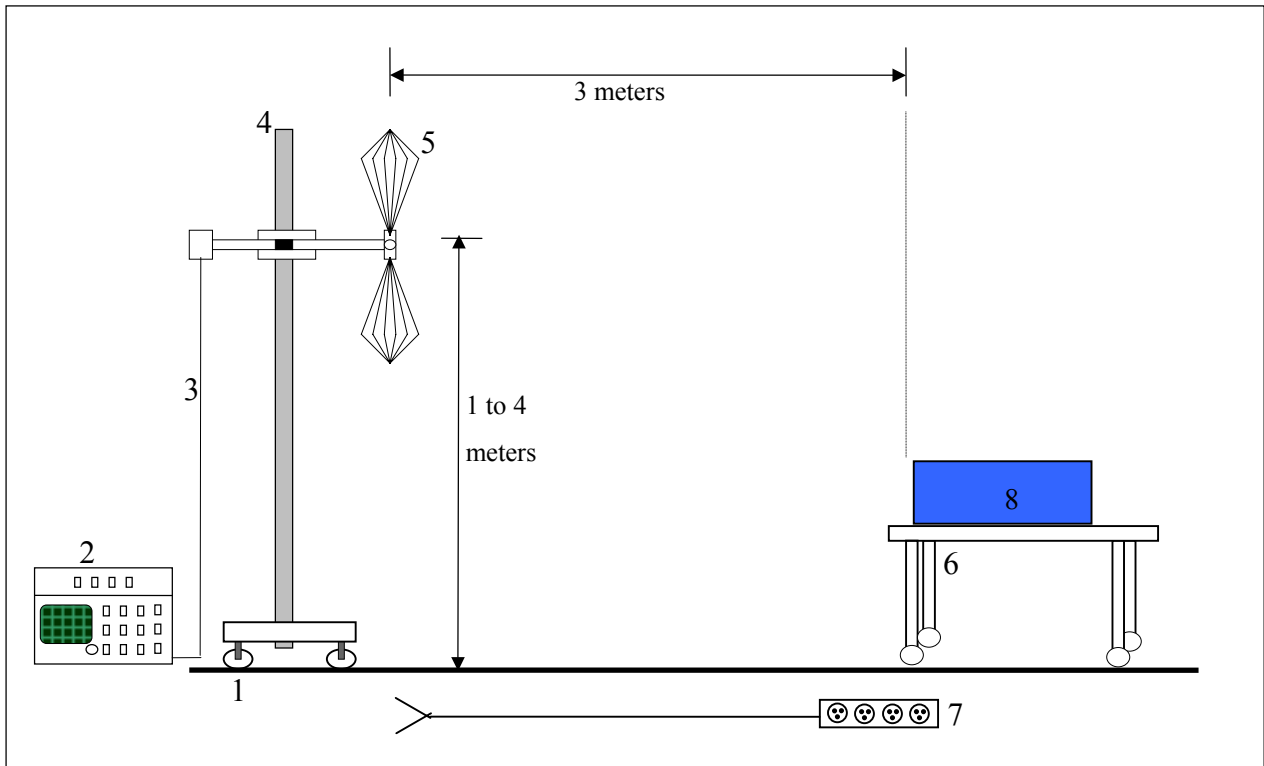
36.9 dBuV/M Final adjusted value

The final adjusted value is then compared to the appropriate emission limit to determine compliance.

For Radiated Emissions Test Configuration please refer to Figure 4 on the following page.

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Figure 1. Radiated Power Measurement Test Setup Diagram



NOT TO SCALE

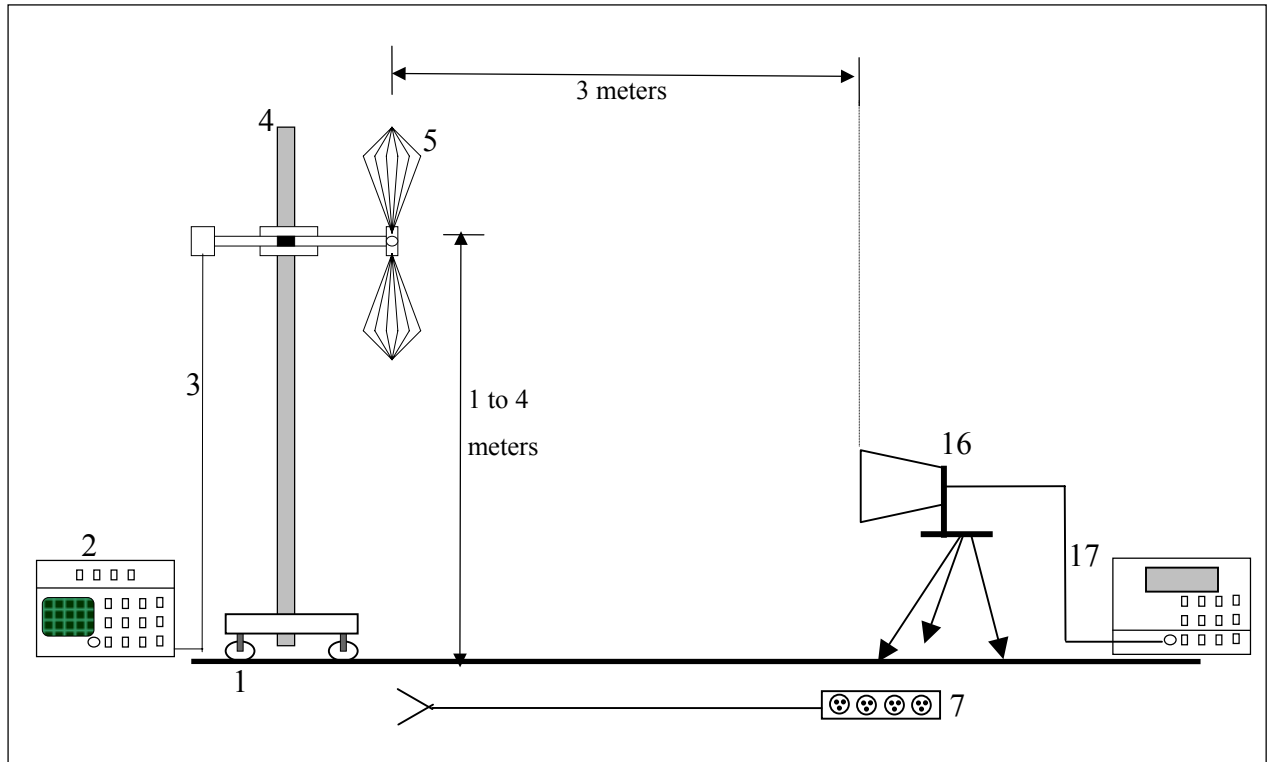
CONFIGURATION LEGEND

- 1. Ground plane (11 X 17 meters)
- 2. Spectrum Analyzer with Quasi-Peak Adapter
- 3. Coax interconnect from Receive Antenna to Spectrum Analyzer
- 4. Antenna Mast with motorized mounting assembly
- 5. Receive Antenna (basic relative position)
- 6. Non-Conducting table 80 cm above ground plane
- 7. AC power for devices
- 8. EUT: PCS Cell Phone

Radiated Power was measured on three orthogonal axes. Only the maximum emissions of the three axes are stated in this report.

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Figure 2. Substitution Method Test Setup Diagram



NOT TO SCALE

CONFIGURATION LEGEND

- 9. Ground plane (11 X 17 meters)
- 10. Spectrum Analyzer with Quasi-Peak Adapter
- 11. Coax interconnect from Receive Antenna to Spectrum Analyzer
- 12. Antenna Mast with motorized mounting assembly
- 13. Receive Antenna (basic relative position)
- 14. Non-Conducting table 80 cm above ground plane
- 15. AC power for devices
- 16. Radiating Antenna
- 17. Signal Generator

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2 Test Results

2.1 Radiated Emissions Test Data

FCC Part 2, 22 & 24 Emissions Substitution

- 1) Methodology Used: TIA/EIA603 (see attached excerpt).
- 2) The Substitution Method is used for fundamental power levels and spurious emissions when RF emission signals are measured within 20 dB of the limit.
- 3) Formula Used to calculate the values:
 - a) Measured value + antenna factor + cable loss - preamplifier = Max Level
 - b) Margin = Max level - Limit
 - c) Signal Generator power level - cable loss + antenna gain = ERP Part 22 or EIRP Part 24
 - d) Substituted Margin = ERP (or EIRP) - Limit

Note: gain for dipole = 0; antenna factor is not the same as antenna gain

Note: The signal generator power level is the power required when transmitting into the substituting antenna to duplicate the Measured Value. Substituted margin is reported in 731 forms pertaining to certification grants and Class II Permissive Changes when a direct conducted power reading cannot be performed.

Note: Per FCC Part 2:1051 the FCC does not require reporting of Spurious Emissions when they are more than 20dB below the permissible limit, therefore no signal substitution measurements will be performed on these signals. Noise floor measurements are noted to be at levels no less than 6 dB from the specified limit. Use of reduced bandwidth ensure that no spurious emissions are missed from detection.

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Radiated Emissions Data

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Client Name : Kyocera-Wireless Corporation
 EUT Name : Cellular Phone
 EUT Model # : K27-120
 EUT Serial # : FFSM000000300
 EUT Config. : PCS TX Power level and Harmonics

Specification : FCC Part 24 Reference : _____
 Rod. Ant. # : _____ Temp. (°C) : 20 Date : 01/10/07
 Bicon Ant.# : _____ Humidity (%) : 17 Staff : A. Laudani
 Log Ant.# : _____ EUT Voltage : NA
 DRG Ant. # : 877 EUT Frequency : NA Peak Bandwidth: 1 MHz
 Dipole Ant.# : _____ Phase: NA Video Bandwidth 1 MHz
 Cable# : 40ft Location: RN # 329550-01
 Preamp# : 842 Distance: 3m
 Spec An.# : 835 EIRP conversion factor 5.5

Meas. Freq. (MHz)	Measured dBuV/m	EUT ORIENTATION	CF (db)	Max Level (dBm) pk	Spec. Limit (ERIP) (dBm) pk	Margin dB pk	EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
OPEN										
1851.00	90.8	Highest of 3	26.8	22.3	33.0	-10.7		1.2	Pass	
1880.00	91.8	Highest of 3	26.8	23.3	33.0	-9.7		1.0	Pass	
1908.75	90.8	Highest of 3	26.8	22.3	33.0	-10.7		1.0	Pass	
3702.50	77.1	Highest of 3	-9.5	-27.7	-13.0	-14.7		1.2	Pass	
3760.00	86.6	Highest of 3	-9.5	-18.2	-13.0	-5.2		1.0	Pass	
3817.50	82.4	Highest of 3	-9.5	-22.4	-13.0	-9.4		1.3	Pass	
5553.75	66.2	Highest of 3	-0.9	-30.0	-13.0	-17.0		1.1	Pass	
5640.00	70.2	Highest of 3	-0.9	-26.0	-13.0	-13.0		1.0	Pass	
5726.25	63.6	Highest of 3	-0.9	-32.6	-13.0	-19.6		1.1	Pass	
CLOSED										
1851.00	85.1	Highest of 3	26.8	16.6	33.0	-16.4		1.3	Pass	
1880.00	85.5	Highest of 3	26.8	17.0	33.0	-16.0		1.3	Pass	
1908.75	84.8	Highest of 3	26.8	16.3	33.0	-16.7		1.2	Pass	
3702.50	76.2	Highest of 3	-9.5	-28.6	-13.0	-15.6		1.3	Pass	
3760.00	84.5	Highest of 3	-9.5	-20.3	-13.0	-7.3		1.1	Pass	
3817.50	82.3	Highest of 3	-9.5	-22.5	-13.0	-9.5		1.0	Pass	
5553.75	64.8	Highest of 3	-0.9	-31.4	-13.0	-18.4		1.0	Pass	
5640.00	69.5	Highest of 3	-0.9	-26.7	-13.0	-13.7		1.2	Pass	
5726.25	58.8	Highest of 3	-0.9	-37.4	-13.0	-24.4		1.1	Pass	

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RADIATED EMISSIONS AND SUBSTITUTION METHOD

TEST EQUIPMENT

Client	Kyocera Wireless Corp.	EUT Name	PCS Cell Phone		
PAN #	2276-1-EMC	EUT Model	K27-120		
<i>Device Type</i>	<i>Model #</i>	<i>Asset #</i>	<i>Cal Done</i>	<i>Cal Due</i>	
<i>Pre-Amplifier</i>					
High-Frequency	Nemko	842	5/12/06	5/12/07	
<i>Antenna</i>					
Antenna, Ridged Guide	SAS-571	877	6/20/2006	6/20/2007	
Antenna, Ridged Guide	3115	529	8/31/06	8/31/07	
Antenna Set, Dipole	3121C	765	6/27/06	6/27/07	
Antenna, Horn	3116	625	2/3/2006	02/03/07	
<i>Spectrum Analyzer / Receiver</i>					
Spectrum Analyzer, Agilent	E4440A	911	6/7/06	6/7/07	
Signal Generator, Agilent	E8254A	836	7/27/2006	07/27/07	

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APPENDIX A

A. Radiated Emissions Measurement Uncertainties

1. Introduction

ISO/IEC 17025:1999 and ANSI/NCSL Z540-1-1994 require that all measurements contained in a test report be “traceable”. “Traceability” is defined in the *International Vocabulary of Basic and General Terms in Metrology* (ISO: 1993) as: “the property of the result of a measurement... whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons, *all having stated uncertainties*”.

The purposes of this Appendix are to “state the *Measurement Uncertainties*” of the conducted emissions and radiated emissions measurements contained in Section 5 of this Test Report, and to provide a practical explanation of the meaning of these measurement uncertainties.

2. Statement of the Worst-Case Measurement Uncertainties for the Conducted and Radiated Emissions Measurements Contained in This Test Report

Table 1: Worst-Case Expanded Uncertainty "U" of Measurement for a k=2 Coverage Factor

Radiated Emissions Measurement Detection Systems	Applicable Frequency Range	"U" for a k=2 Coverage Factor
Spectrum Analyzer with QPA & Preamplifier	30 MHz - 200 MHz	+3.9 dB, -4.0 dB
Spectrum Analyzer with QPA & Preamplifier	200 MHz-1000 MHz	+/- 3.5 dB
Spectrum Analyzer with Preamplifier	1 GHz - 18 GHz	+2.5 dB, -2.6 dB
Spectrum Analyzer with Preamplifier	18 GHz - 40 GHz	+/- 3.4 dB

NOTES:

1. Applies to 3 and 10 meter measurement distances
2. Applies to all valid combinations of Transducers (i.e. LISNs, Line Voltage Probes, and Antennas, as appropriate)
3. Excludes the Repeatability of the EUT

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3. Practical Explanation of the Meaning of Radiated Emissions Measurement Uncertainties

In general, a “Statement of Measurement Uncertainty” means that with a certain (specified) confidence level, the “true” value of a measurand will be between a (stated) upper bound and a (stated) lower bound.

In the specific case of EMC Measurements in this test report, the measurement uncertainties of the conducted emissions measurements and the radiated emissions measurements have been calculated in accordance with the method detailed in the following documents:

- *ANSI Z540.2 (2002) Guide to the Expression of Uncertainty in Measurement*
- NIS 81:1994, *The Treatment of Uncertainty in EMC Measurements* (NAMAS, 1994)
- NIST Technical Note 1297(1994), *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results* (NIST, 1994)

The calculation method used in these documents requires that the stated uncertainty of the measurements be expressed as an “*expanded uncertainty*”, *U*, with a *k=2 coverage factor*. The practical interpretation of this method of expressing measurement uncertainty is shown in the following example:

EXAMPLE: Assume that at 39.51 MHz, the (measured) radiated emissions level was equal to +26.5 dBuV/m, and that the +/- 2 standard deviations (i.e. 95% confidence level) measurement uncertainty was +/- 3.4 dB.

In the example above, the phrase “*k = 2 Coverage Factor*” simply means that the measurement uncertainty is stated to cover +/-2 standard deviations (i.e. a 95% confidence interval) about the measurand. The measurand is the radiated emissions measurement of +26.5 dBuV/m at 39.51 MHz, and the 95% bounds for the uncertainty are -3.4 dB to + 3.4 dB. One can thus be 95% confident that the “true” value of the radiated emissions measurement is between +23.1 dBuV/m and +29.5 dBuV/m. *In effect, this means that in the above example there is only a 2.5% chance that the “true” radiated emissions value exceeds +29.5 dBuV/m.*

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APPENDIX B

B. Nemko USA, Inc. Test Equipment & Facilities Calibration Program

Nemko USA, Inc. operates a comprehensive Periodic Calibration Program in order to ensure the validity of all test data. Nemko USA's Periodic Calibration Program is fully compliant to the requirements of NVLAP Policy Guide PG-1-1988, ANSI/NCSL Z540-1-1994, ISO 10012: 2003, ISO/IEC 17025:1999, and ISO-9000: 2000. Nemko USA, Inc.'s calibrations program therefore meets or exceeds the US national commercial and military requirements [N.B. ANSI/NCSL Z540-1-1994 replaces MIL-STD-45662A].

Specifically, all of Nemko USA's *primary reference standard devices* (e.g. vector voltmeters, multimeters, attenuators and terminations, RF power meters and their detector heads, oscilloscope mainframes and plug-ins, spectrum analyzers, RF preselectors, quasi-peak adapters, interference analyzers, impulse generators, signal generators and pulse/function generators, field-strength meters and their detector heads, etc.) and certain *secondary standard devices* (e.g. RF Preamplifiers used in CISPR 11/22 and FCC Part 15/18 tests) are periodically recalibrated by:

- A Nemko USA-approved independent (third party) metrology laboratory that uses NIST-traceable standards and that is ISO Guide 25-accredited as a calibration laboratories by NIST; or,
- A Nemko USA-approved independent (third party) metrology laboratory that uses NIST-traceable standards and that is ISO Guide 25-accredited as a calibration laboratory by another accreditation body (such as A2LA) that is mutually recognized by NIST; or,
- A manufacturer of Measurement and Test Equipment (M&TE), if the manufacturer uses NIST-traceable standards and is ISO Guide 25-accredited as calibration laboratory either by NIST or by another accreditation body (such as A2LA) that is mutually recognized by NIST; or
- A manufacturer of M&TE (or by a Nemko USA-approved independent third party metrology laboratory) that is not ISO Guide 25-accredited. (In these cases, Nemko USA conducts an annual audit of the manufacturer or metrology laboratory for the purposes of proving traceability to NIST, ensuring that adequate and repeatable calibration procedures are being applied, and verifying conformity with the other requirements of ISO Guide 25).

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In all cases, the entity performing the Calibration is required to furnish Nemko USA with a calibration test report and/or certificate of calibration, and a “calibration sticker” on each item of M&TE that is successfully calibrated.

Calibration intervals are normally one year, except when the manufacture advises a shorter or if US Government directives or client requirements demand a shorter interval. Items of instrumentation/related equipment which fail during routine use, or which suffer visible mechanical damage (during use or while in transit), are sidelined pending repair and recalibration. (Repairs are carried out either in-house [if minor] or by a Nemko USA-approved independent [third party] metrology laboratory, or by the manufacturer of the item of M&TE).

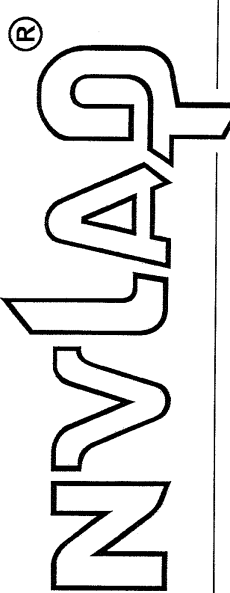
Each antenna used for CISPR 11 and CISPR 22 and FCC Part 15 and Part 18 radiated emissions testing (and for testing to the equivalent European Norms) is calibrated annually by either a NIST (or A2LA) ISO Standard 17025-Accredited third-party Antenna Calibration Laboratory or by the antenna’s OEM if the OEM is NIST or A2LA ISO Standard 17025-accredited as an antenna calibration laboratory. The antenna calibrations are performed using the methods specified in Annex G.5 of CISPR 16-1(2003) or ANSI C63.5-2004, including the “Three-Antenna Method”. Certain other kinds of antennas (e.g. magnetic-shielded loop antennas) are calibrated annually by either a NIST (or A2LA) ISO Standard 17025-accredited third-party antenna calibration laboratory, or by the antenna’s OEM if the OEM is NIST or A2LA ISO Standard 17025-accredited as an antenna calibration laboratory using the procedures specified in the latest version of SAE ARP-958.

In accordance with FCC and other regulations, Nemko USA recalibrates its suite of antennas used for radiated emissions tests on an annual basis. These calibrations are performed as a precursor to the FCC-required annual revalidation of the Normalized Site Attenuation properties of Nemko USA’s Open Area Test Site. Nemko USA, Inc. uses the procedures given in both Sub clause 16.6 and Annex G.2 of CISPR 16-1 (2003), and, ANSI C63.4-2003 when performing the normalized site attenuation measurements.

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**APPENDIX C
C. NVLAP Accreditation**

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:1999


NVLAP LAB CODE: 200116-0

Nemko USA, Inc. - San Diego EMC Division
San Diego, CA
USA

*is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in
NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:*

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

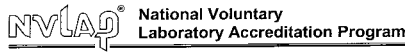
2007-01-01 through 2007-12-31
Effective dates



Jolly S. Buce
For the National Institute of Standards and Technology

NVLAP-01C (REV. 2005-05-19)

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999

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URL: http://www.ncmko.com

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS NVLAP LAB CODE 200116-0

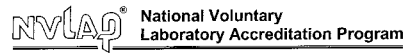
NVLAP Code Designation / Description

Emissions Test Methods:

- 12/10063c IEC 61000-6-3 (1996), EN 61000-6-3 (2001), A1 (2004): Electromagnetic Compatibility (EMC) - Part 6: Generic standards - Section 3: Emission standard for residential, commercial, and light-industrial environments.
- 12/60E213 RTCA DO-160E: Section 21.3, RF Emissions, Conducted
- 12/60E214 RTCA DO-160E: Section 21.4, RF Emissions, Radiated
- 12/CIS11F AS/NZS CISPR 11 (2002): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
- 12/CIS11g IEC/CISPR 11, Ed. 4.1 (2004-06): Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurements
- 12/CIS11h AS/NZS CISPR 11 (2004): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement

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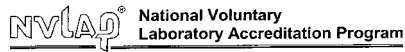
ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS NVLAP LAB CODE 200116-0

NVLAP Code Designation / Description

- 12/CIS11i IEC/CISPR 11, Ed. 4.1 (2004-06) + A1(2004): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
- 12/CIS11j EN 55011 (1998) + A1(1999), A2(2002): Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
- 12/CIS11k IEC/CISPR 11 (2003), EN 55011 (1998), A2(2002): Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific, and Medical Radio-Frequency Equipment
- 12/CIS13c CISPR 13 (2003) + Amdt 1(2003) & AS/NZS CISPR 13 (2004): Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
- 12/CIS14 CISPR 14-1 (March 30, 2000): Limits and Methods of Measurement of Radio Interference Characteristics of Household Electrical Appliances, Portable Tools and Similar Electrical Apparatus - Part 1: Emissions
- 12/CIS14a EN 55014-1 (1993), A1 (1997), A2 (1999):
- 12/CIS14b AS/NZS 1044 (1995):
- 12/CIS14b1 AS/NZS CISPR 14-1 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
- 12/CIS14c CNS 13783-1: Electromagnetic Compatibility Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions
- 12/CIS14x IEC/CISPR 14-1, Ed. 4 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission

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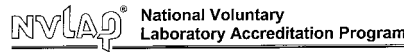
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- 12/CIS15b CNS 13439 (2000) + A1 (2001): Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- 12/CIS22 IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
- 12/CIS22a IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)
- 12/CIS22a4 IEC/CISPR 22 (1993) & EN 55022 (1994)+A1(1995), A2(1997): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
- 12/CIS22b CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
- 12/CIS22c1 IEC/CISPR 22, Edition 5 (2005) and EN 55022 (1998): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
- 12/CIS22c3 IEC/CISPR 22, Edition 5 (2005) + A1(2005): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
- 12/CIS22c4 EN 55022 (1998) + A1(2000) + A2(2003): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
- 12/CIS25b IEC/CISPR 25, 2nd ed. (2002-08): Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement: Sections 2, 6.3, 6.4, & 6.5
- 12/EM02a IEC 61000-3-2, Edition 2.1 (2001-10), EN 61000-3-2 (2000), and AS/NZS 2279.1 (2000): Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A)

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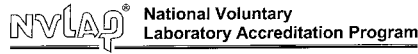
NVLAP Code Designation / Description

- 12/EM02d IEC 61000-3-2, Edition 2.2 (2004-11): Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)
- 12/EM03b IEC 61000-3-3, Edition 1.1(2002-03) & EN 61000-3-3, A1(2001): EMC - Part 3-3: Limits - Limitations of voltage changes, voltage fluctuations and flicker, in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connections
- 12/EM03g IEC 61000-3-3, Edition 1.1 (2003) +A2 (2005): EMC Part 3-3: Limits - Limitations of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connections
- 12/EM11en EN 61000-3-11, 1st Ed (2000-05): EMC - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current <= 75A and subject to conditional connection
- 12/EM12 IEC 61000-3-12, Rev 04, November 2004: Electromagnetic Compatibility (EMC) - PART 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current greater than 16 A and less than or equal to 75 A
- 12/EN11 EN 61000-3-11, Rev 01, Feb 2001: Electromagnetic Compatibility (EMC) Limits, Limitation of Voltage Changes, Voltage Fluctuations and Flicker in public low-voltage supply systems - Equipment with rated voltage current < 75 A and subject to conditional connection
- 12/F18 FCC OST/MP-5 (1986): FCC Methods of Measurement of Radio Noise Emissions for ISM Equipment (cited in FCC Method 47 CFR Part 18 - Industrial, Scientific, and Medical Equipment)
- 12/FCC11 ANSI C63.4 (2003) with FCC Method - 47 CFR Part 11: Emergency Alert System (EAS)
- 12/FCC15b ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators

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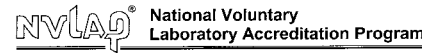


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NVLAP Code	Designation / Description
12/FCC15e1	ANSI C63.4 (2003) and Millimeter Wave Test Procedures: IDB 20040420-001 with FCC Method - 47 CFR Part 15, Subpart C: Intentional Radiators
12/FCC15e2	DA 00-705 - March 30, 2000 and KDB Pub. No. 558074: with FCC Method - 47 CFR Part 15, Subpart C: Intentional Radiators - (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems - and - New Guidance on Measurements for Digital Transmission Systems in Section 15.247)
12/FCC15e3	KDB Pub. No. 200433 Millimeter Wave Test Procedures: with FCC Method - 47 CFR Part 15, Subpart C: Intentional Radiators
12/FCC15d	ANSI C63.17(1998) and ANSI C63.4 (2003): with FCC Method - 47 CFR Part 15, Subpart D: Unlicensed Personal Communications Service Devices
12/151a	AS/NZS CISPR 22 (2004): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
12/VCCIb	Agreement of VCCI V-3 (2006.04): Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2006.04
Immunity Test Methods:	
12/60E15	RTCA DO 160E: Section 15, Magnetic Effects
12/60E16	RTCA DO160E: Section 16, Power Input
12/60E17	RTCA DO-160E: Section 17, Voltage Spikes
12/60E18	RTCA DO-160E: Section 18, Audio Frequency Conducted Susceptibility
12/60E19	RTCA DO-160E: Section 19, Induced Signal Susceptibility
12/60E204	RTCA DO-160E: Section 20.4, RF Susceptibility, Conducted
12/60E205	RTCA DO-160E: Section 20.5, RF Susceptibility, Radiated

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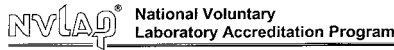


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12/60E22	RTCA DO-160E: Section 22, Lightning Induced Transient Susceptibility
12/60E25	RTCA DO-160E: Section 25, Electrostatic Discharge (ESD)
12/610006h	IEC 61000-4-1, 2nd edition (2005-03): Electromagnetic compatibility (EMC) - Part 6: Generic standards - Section 1: Immunity for residential, commercial and light-industrial environments
12/610006i	IEC 61000-6-2, Edition 2.0 (2005-01): Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
12/701	IEC 61000-4-2, Ed. 1.2 (2001) + A1, A2; EN 61000-4-2: Electrostatic Discharge Immunity Test
12/701b	IEC 61000-4-2 (2001); EN 61000-4-2 (2001), A2 (2001): Electrostatic Discharge Immunity Test
12/701c	EN 61000-4-2 +A1(1998)+A2(2001): Electrostatic Discharge Immunity Test
12/702	IEC 61000-4-3, Ed. 2.0 (2002-03); EN 61000-4-3 (2002): Radiated Radio-Frequency Electromagnetic Field Immunity Test
12/702b	IEC/EN 61000-4-3, Ed. 2.1 (2002), A1 (2002); EN 61000-4-3: Radiated, radio-frequency, electromagnetic field immunity test
12/702e	EN 61000-4-3 (2002) + A1(2002) + IS1(2004): Radiated, radio-frequency, electromagnetic field immunity test
12/702f	EN 61000-4-3 (2002) + A1(2002): Radiated, radio-frequency, electromagnetic field immunity test
12/703	IEC 61000-4-4(1995), A1(2000), A2(2001), EN 61000-4-4: Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test

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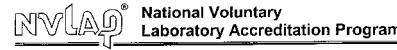


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NVLAP Code	Designation / Description
12/703c	IEC 61000-4-4, Ed. 2.0 (2004-07): Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
12/704	IEC 61000-4-5, Ed. 1.1 (2001-04); EN 61000-4-5: Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
12/704b	IEC 61000-4-5 (2001), A1(2000); EN 61000-4-5(2001), A1(2000): Surge Immunity Test
12/705	IEC 61000-4-6, Ed. 2.0 (2003-05); EN 61000-4-6: Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/705d	IEC 61000-4-6, Ed. 2.1 (2004); EN 61000-4-6: Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
12/705e	EN 61000-4-6 (1996) + A1 (2001) + IS1(2004): Immunity to Conducted Disturbances, Induced by Radio Frequency Fields
12/706	IEC 61000-4-8, Ed. 1.1 (2001); EN 61000-4-8: Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
12/706b	IEC 61000-4-8 (2001), A1(2000); EN 61000-4-8 (2001), A1(2000): Power Frequency Magnetic Field Immunity Test
12/706c	EN 61000-4-8 (1993) + A1 (2001): Power Frequency Magnetic Field Immunity Test
12/707	IEC 61000-4-11, Ed. 1.1 (2001-03); EN 61000-4-11: Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/707c	IEC 61000-4-11, Ed. 2 (2004-03) & EN 61000-4-11: Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests

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12/707e	EN 61000-4-11 (1994), A1 (2001): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/707f	EN 61000-4-11 (2004): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/712	IEC 61000-4-12, Edition 1.1 (2001-04): Testing and Measurement Techniques - Oscillatory Wave Immunity Test
12/KN11a	KN 61000-4-11 with RRL Notice No. 2005-130 (Dec 27, 2005): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests
12/KN132	Korea RRL Notice 132 (october 2005): Conformity Assessment Procedure for Electromagnetic Susceptibility
12/KN150	EMS RRL Notice No. 2005-130: 2005.12.27: RRL Notice No. 2005-130: Technical Requirements for Electromagnetic Susceptibility Annex 1-7 (KN61000-4-2, -3, -4, -5, -6, -8, -11), RRL Notice No. 2005-132: Conformity Assessment Procedures for Electromagnetic Susceptibility
12/KN24	KN24 (December 2005) with RRL Notice No. 2005-83: Information Technology Equipment - immunity characteristics - limits and methods of measurements
12/KN2a	KN 61000-4-2 with RRL Notice No. 2005-130 (Dec. 27, 2005): Electrostatic Discharge Immunity Test
12/KN31	Korea RRL Notice No. 31 (2004): Conformity Assessment Procedures for Electromagnetic Susceptibility using KN 61000-4-2, KN 61000-4-3, KN 61000-4-4, KN 61000-4-5, KN 61000-4-8, KN 61000-4-11, KN 20, KN 41, and KN 50.
12/KN3a	KN 61000-4-3 with RRL Notice No. 2005-130 (Dec. 27, 2005): Radiated, radio-frequency, electromagnetic field immunity test

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12/KN4a	KN 61000-4.4 with RRL Notice No. 2005-130 (Dec. 27, 2005): Electromagnetic compatibility (EMC): Testing and measurement techniques - Electrical Fast Transient/Burst Immunity
12/KN5a	KN 61000-4.5 with RRL Notice No. 2005-130 (Dec. 27, 2005): Surge Immunity Test
12/KN6a	KN 61000-4.6 with RRL Notice No. 2005-130 (Dec. 27, 2005): Electromagnetic compatibility (EMC): Testing and measurement techniques - Immunity to conducted disturbances,
12/KN70	Korea RRL Notice 70 (2004): Technical Requirements for Electromagnetic Susceptibility using KN 61000-4-2, KN 61000-4-3, KN61000-4-4, KN 61000-4-5, KN 61000-4-6, KN 61000-4-8, KN 20, KN 41, and KN 51
12/KN8a	KN 61000-4-8 with RRL Notice No. 2005-130 (Dec. 27, 2005): Power Frequency Magnetic Field Immunity Test

Product Safety Test Methods

12/06601a	IEC 60601-1-2, Ed1(1993),Ed2(2001-09), IIS T0601-1-2(2002.7): Medical electrical equipment - Part 1 and Part 1-2: General requirements for safety: Collateral standard: EMC - Requirements and tests
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MIL-STD-462 : Conducted Emissions:

12/A01	MIL-STD-462 Method CE01
12/A04	MIL-STD-462 Method CE02
12/A06	MIL-STD-462 Method CE03
12/A08	MIL-STD-462 Method CE04
12/A10	MIL-STD-462 Method CE06

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12/A12	MIL-STD-462 Method CE07
12/A13	MIL-STD-462 Version D Method CE101
12/A14	MIL-STD-462 Version D Method CE102
12/A15	MIL-STD-462 Version D Method CE106
12/A16	MIL-STD-461 Version E Method CE101
12/A17	MIL-STD-461 Version E Method CE102
12/A18	MIL-STD-461 Version E Method CE106

MIL-STD-462 : Conducted Susceptibility:

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B04	MIL-STD-462 Method CS03/CS04/CS05/CS08
12/B05	MIL-STD-462 Method CS06
12/B06	MIL-STD-462 Method CS07
12/B07	MIL-STD-462 Method CS09
12/B08	MIL-STD-462 Method CS10
12/B09	MIL-STD-462 Method CS11
12/B10	MIL-STD-462 Method CS12
12/B11	MIL-STD-462 Method CS13
12/B12	MIL-STD-462 Version D Method CS101

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12/B13	MIL-STD-462 Version D Method CS103
12/B14	MIL-STD-462 Version D Method CS104
12/B15	MIL-STD-462 Version D Method CS105
12/B16	MIL-STD-462 Version D Method CS109
12/B17	MIL-STD-462 Version D Method CS114
12/B18	MIL-STD-462 Version D Method CS115
12/B19	MIL-STD-462 Version D Method CS116
12/B20	MIL-STD-461 Version E Method CS101
12/B21	MIL-STD-461 Version E Method CS103
12/B22	MIL-STD-461 Version E Method CS104
12/B23	MIL-STD-461 Version E Method CS105
12/B24	MIL-STD-461 Version E Method CS109
12/B25	MIL-STD-461 Version E Method CS114
12/B26	MIL-STD-461 Version E Method CS115
12/B27	MIL-STD-461 Version E Method CS116

MIL-STD-462 : Radiated Emissions:

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02
12/D03	MIL-STD-462 Method RE03

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12/D04	MIL-STD-462 Version D Method RE101
12/D05	MIL-STD-462 Version D Method RE102
12/D06	MIL-STD-462 Version D Method RE103
12/D07	MIL-STD-461 Version E Method RE101
12/D08	MIL-STD-461 Version E Method RE102
12/D09	MIL-STD-461 Version E Method RE103

MIL-STD-462 : Radiated Susceptibility:

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E03	MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
12/E07	MIL-STD-462 Method RS06
12/E08	MIL-STD-462 Version D Method RS101
12/E09	MIL-STD-462 Version D Method RS103
12/E11	MIL-STD-461 Version E Method RS101
12/E12	MIL-STD-461 Version E Method RS103

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