



Agilent Training and Application Engineering Services Catalog

Product Services
Training
Application Services



Agilent Technologies

Catalog Overview

*Helping you
overcome your test
and measurement
obstacles*

This catalog provides an overview of the training courses and application engineering services that can help you solve your test and measurement problems.

Your sales representative or application engineer can provide you with specifics about the

services such as detailed data sheets, pricing and availability. They can also help you define a specific solution that is not listed in this catalog.

For updated information about our services please visit www.agilent.com/find/training

Product Services

Start-up Assistance

Focuses on immediate operation and control to get you started with your equipment quickly.

Available at the time of product purchase on most of our products.

Productivity Assistance

Get hands-on assistance to make specific measurements or improve your efficiency and effectiveness making measurements with your Agilent equipment and the device under test.

Available for most products. You work with an application engineer to define the support you need.

Training Courses

Technology

Courses range from test and measurement basics to new and emerging technologies.

Many of our courses are scheduled at an Agilent training facility. Visit our Web to see the current course calendar. www.agilent.com/find/training

Product Training

Courses focus on product operation and measurement techniques.

Most of our courses can be delivered at a location convenient to you.

Application Engineering

Understand and solve specific application and measurement problems with your device under test.

These services provide examples of how we help customers solve specific application problems. We can work with your team to define and solve your unique test and measurement challenges.

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Product Services

Startup Assistance

PS-S20-0X

Start-up assistance is available for most instruments. It provides you with training on how to operate your instrument effectively. There is a defined agenda and length of instruction for each instrument that has this service option.

Productivity Assistance

PS-S20-100

Daily instrument and application consulting using your equipment and device under test. We help you define the agenda and time to deliver the services. An Agilent engineer will compliment your engineering team where and when you need it.

Remote Scheduled Productivity Assistance (RSPA)

PS-S10-100

Provides phone-in help to enable you to use your instrument more effectively for the tasks you need to accomplish. This technical support is an hourly service designed to help you understand and operate your equipment through convenient phone and Web access.

Training Courses

PXA Signal Analyzer Operations

Learn how to operate the
N9030A PXA Signal Analyzer

H7215X-100 (2 days)

This course is designed to provide a basic understanding of how spectrum analyzers work, how to use them to their fullest potential, and how to make them more effective for particular applications. The course includes labs which demonstrate practical signal analysis measurements using the Agilent PXA analyzer.

Prerequisites: Basic RF measurement concepts and terminology

Publication Number: 5990-5525EN

PNA-X Operation and Application Training

H7215X-100 (2 days)

This is a two-day course that provides an introduction to the PNA-X, basic network analyzer theory, PNA-X block diagram architecture, front panel navigation, and network analyzer calibration. Optional 1-day modules are also available to gain immediate benefits and experience on the many different measurement application capacities of the PNA-X network analyzer.

Prerequisites: Knowledge on RF and microwave fundamentals

Publication Number: 5989-7399EN

RF & Microwave Measurement Fundamentals

H7215A/B-101 (4 days)

This class studies the principles of microwave on transmission lines and power measurements including signal sources, mixers and modulation techniques, and the use of signal types in test applications. Understand amplitude and angle modulation, vector and scalar network measurements, and spectrum analyzer measurements through extensive hands-on interaction.

Prerequisites: Understanding of basic electronic principles and general analog measurement principles.

Publication Number: 5988-4483EN

Training Courses

Agilent Line Sweep, Antenna Test Training

Agilent Handheld N9330B Cable
and Antenna Tester and N9912A
FieldFox RF Analyzer

H7215A/B-121 (2 days)

This 2-day course covers the theory and practical return loss and distance-to-fault testing used in installation, maintenance and operation of antenna systems utilizing the Agilent N9330B or N9912A FieldFox. The class will include extensive hands-on exercises including testing cables, connectors and antennas, interpreting results and troubleshooting.

Prerequisites: None

Publication Number: 5990-5002EN

Agilent RF Interference Analysis Training

Agilent Handheld N9340B
Spectrum Analyzer and
N9912A FieldFox RF Analyzer

H7215A/B-122 (2 days)

This 2-day course covers the theory and practical skills required to operate and understand test results for RF spectrum analysis on the Agilent N9340B or N9912A FieldFox. Modules include an overview of radio as a transmission media, transmitters/receivers, wave propagation and radio antenna systems. Included in this course are numerous spectrum analysis and interference detection hands-on exercises.

Prerequisites: None

Publication Number: 5990-5004EN

Agilent Line Sweep, Antenna Test and RF Interference Training

Agilent Handheld N9330B Cable and
Antenna Tester, N9340B Spectrum
Analyzer and N9912A FieldFox
RF Analyzer

H7215A/B-123 (3 days)

This 3-day course covers the theory and practical skills required to operate and understand test results for RF spectrum analysis and line sweeping on the Agilent N9330B, N9340B and N9912A FieldFox. Modules include an overview of radio as a transmission media, transmitters, receivers, wave propagation and radio antenna systems. Included in this course are numerous spectrum analysis and interference detection hands-on exercises.

Prerequisites: None

Publication Number: 5990-5006EN

Training Courses

Cable and Connector Care

H7215B-160 (1/2 day)

This 1/2 day course trains users of RF & Microwave test equipment on the proper use of cables and connectors. Upon completion of the course students will have fundamental knowledge about the types of connectors, basic construction of a coaxial cable, principles of connector care and the connector specifications. Students will be able to use network analyzers to make some measurements that will teach the importance of connector care.

Prerequisites: None

Publication Number: 5988-4167EN

Signal Generator and Source Basics

H7215X-100 (1/2 day)

Prepare for today's technology challenges by reviewing the basics of signals required to test a variety of products, from amplifiers to highly secure communication systems. These signals may be as simple as a single frequency sinusoid or as complex as a digitally modulated carrier. This course addresses the basics of signal generators and their applications in analog and digitally modulated systems. We review block diagrams, where appropriate, and examine signal generator specifications. Lab demonstrations provide practical examples to illustrate theoretical concepts.

Prerequisites: None

Publication Number: 5988-5598EN

Transmission Line Fundamentals

H7215B-166 (1/2 day)

This course introduces students to the concept of transmission lines, which forms the basis for understanding RF and microwave technology. Students will understand the need for transmission lines and also the complexities involved in dealing with high-frequency systems.

Prerequisites: None

Publication Number: 5988-5604EN

Training Courses (Continued)

Power Measurement Basics

H7215X-100 (1/2 day)

This course presents an overview of RF and microwave power measurement principles. You will learn why and how to make power measurements. You will be introduced to various kinds of power sensors and different types of power measurements. A demonstration will help you understand cable insertion loss and related measurement errors.

Prerequisites: None

Publication Number: 5988-5599EN

Spectrum Analysis

H7215B-169 (1 day)

This course is designed to provide theoretical fundamentals and a demonstration of practical spectrum analysis measurements. The demonstration features an Agilent E440x ESA spectrum analyzer. The course also applies to the functionality of the Agilent 856x and 859x spectrum analyzer series.

Prerequisites: Test & Measurement Fundamentals Curriculum or equivalent.

Publication Number: 5988-5595EN

Network Analysis Basics

H7215B-170 (1 day)

This course is designed to provide theoretical fundamentals and demonstrations of practical network analysis measurements. The course covers demonstration of the Agilent ENA and PNA series network analyzers, the error correction model, different types of calibrations and time domain fundamentals, network analyzer fundamentals.

Prerequisites: Test & Measurement Fundamentals Curriculum or equivalent.

Publication Number: 5988-5596EN

Training Courses (Continued)

Network Analysis Measurements

H7215B-200 (2 days)

Understand how to correctly operate and make measurements using vector network analyzers. The course includes intense labs using the Agilent 8700 family.

Prerequisites: RF & Microwave Fundamentals Curriculum or equivalent.

Publication Number: 5988-1211EN

Spectrum Analysis Measurements

H7215B-201 (2 days)

Understand how to correctly operate and make accurate measurements with spectrum analyzers. Gain an appreciation of spectrum analyzer measurement applications. The course includes intense labs using the ESA family.

Prerequisites: RF & Microwave Fundamentals Curriculum or equivalent.

Publication Number: 5988-1212EN

PNA Series Network Analyzer Operation

H7215B-200 (2 days)

You will learn about the fundamental operation of the PNA series network analyzers using the Windows®2000 interface and front panel. The system architecture, calibration techniques and various test set configurations for optimized dynamic range and higher power measurements are discussed.

Prerequisites: RF & Microwave Fundamentals Curriculum or equivalent.

Publication Number: 5988-3441EN

Agilent's ENA Series Network Analyzer Operation

H7215B-245 (2 days)

Agilent Technologies provides a two-day user's course on the operation of the ENA series of network analyzers. To lay a foundation, the course begins with transmission line and S-parameter theory. Next is instruction on how to operate the ENA's Windows 2000 interface along with its front panel and optional touch screen for trace and channel set-up. Additional topics are the ENA's internal architecture, calibration techniques, and Fixture Simulator software functions. These functions include balanced-to-unbalanced conversion, network de-embedding, impedance conversion, and matching.

Prerequisites: An understanding of RF Fundamentals.

Publication Number: 5988-9928EN

Training Courses (Continued)

Phase-Noise Measurement Using the Agilent E550x System

H7215X-100 (2 days)

This course is designed to introduce the principles of Phase Noise Measurements and train operators of the E5500 Phase Noise Measurement Systems. The course is designed to be generic covering all the E550x A and B systems.

Prerequisites: RF & Microwave Fundamentals and Spectrum Analysis Basics or equivalent.

Publication Number: 5988-4487EN

Noise Figure Measurements

H7215B-303 (1 day)

This course introduces the principles of Noise Figure Measurements, and trains operators in the use of the NFA series of noise figure analyzers to maximize application performance.

Prerequisites: Basic RF measurement concepts and terminology.

Publication Number: 5988-3217EN

Agilent Uncertainty Analysis Basics

H7215X-100 (1-2 days)

This course teaches the principles used in the computation of measurement uncertainty according to the ISO17025 standards. Beginning with a basic statistics and probability overview, the course quickly progresses to the elements of the ISO17025 standard using the GUM method of combining contributing uncertainties. This course is designed to meet the needs of technicians and engineers who need to calculate uncertainties for metrology purposes and can be offered in a one day lecture format or two day lecture and lab course.

Prerequisites: High School Algebra

Publication Number: 5989-4696EN

Training Courses (Continued)

Agilent 1xEV-DO Technology Training

H7216X-100 (1 day)

Reduce the engineering time required to verify design performance for 1xEV-DO terminals using the Agilent E5515C Wireless Communications Test Set.

This training will provide you with an overview of the technology and the equipment used to measure it. Topics range from an overview of the 1xEV-DO technology, forward and reverse test application protocols. Testing needs for manufacturing, and an overview of the applications the E5515C can provide to support the technology.

Prerequisites: Familiarity with CDMA cellular system and CMDA MS test. Familiarity with digital modulation techniques.

RF Measurement Basics

H7216B-101 (2 days)

This course covers all aspects of basic high-frequency measurements. Upon completion, the student should be familiar with radio frequency (RF) measurements including measurement resolution and accuracy, transmission line theory, impedance, matching, RF devices, noise, RF, sources, modulation, distortion. The student will gain experience with power measurements, vector network analyzer measurements, and spectrum analyzer measurements.

Prerequisites: A general understanding of electronics and measurement principles.

Publication Number: 5988-4488EN

Bluetooth Technology Fundamentals

H7216B-110 (1 day)

This course is designed to provide an overview about *Bluetooth*, a new open standard for voice and data transmission. You learn about typical applications (e.g. the wireless transmission from a laptop computer to a printer), the system architecture as well as the set up of short range and ad hoc networks (piconet and scatternet). Further topics are the in-depth discussion about the air interface, the protocol architecture, the connection set up and security measures like authentication and ciphering. A comparison with other wireless communication techniques leads to a discussion about the advantages and disadvantages of *Bluetooth*.

Prerequisites: Basic knowledge of telecommunications.

Publication Number: 5988-3060EN

Training Courses (Continued)

Digital Microwave Radio Basics

H7216B-207 (1 day)

The course gives an overview of the microwave radio systems that are in use today. They are used as part of the general telecommunication network, and we find them more and more in the GSM world. Especially in UMTS it is expected that more fixed links will be installed.

Prerequisites: RF Measurement Basics or equivalent.

Prerequisites: General understanding of electronic and measurement principles.

Publication Number: 5988-4490

GSM Basics

H7216X-100 (1 day)

The course gives an overview of the development of GSM up to the present day, the network infrastructure and the physical parameters of the system.

Prerequisites: RF Measurement Basics or equivalent.

Publication Number: 5988-4491EN

GMS/GPRS/EGPRS

H7216X-100 (1 day)

This 1 day course first examines the 2G cellular GSM technology, including the network infrastructure, the physical layer, the mobiles and the base stations. The 2G Short Message Service (SMS) and Circuit Switched Data (CSD) capability of GSM are examined to lay the foundation for the need of the connectionless protocol of General Packet Radio Service (GPRS), multislots capability, and the higher order modulation scheme of EDGE which provides higher data rates, and evolve GSM into a 3G technology compliant with the IMT-2000 requirements.

Prerequisites: None

Training Courses (Continued)

GSM: Mobile Station Measurement for Using the Agilent 8960

H7216B-301

This course will teach engineers about the GSM cellular system, including the basic GSM technology and ETSI standards. It will discuss manufacturing test methods using the Agilent 8960 GSM test set. The class will provide insight into the various measurement specifications and how to interpret the results. The course includes complementary demonstration of the 8960 and lab-exercises.

Prerequisites: RF Measurement Basics and Analog & Digital Cellular Communications courses or equivalent knowledge. Understanding the theories and terminology involved will be the building blocks for this course.

Publication Number: 5988-4492EN

3G Technology Overview

H7216B-310 (2 days)

The course provides a comprehensive overview of CDMA fundamentals, the evolution to the 3GPP standard and the UMTS network architecture. Upon completion, the students will be able to describe the physical layer and explain how it compares with 2G radio systems. Measurement challenges for the W-CDMA system as well as testing strategies within R&D and manufacturing are discussed and the creation and analysis of W-CDMA signals studied using an Agilent Vector Signal Analyzer (E4406) and an Agilent Signal Generator (ESG series).

Prerequisites: CDMA Basics or understanding of analog and digital communications systems and the CDMA technology.

Publication Number: 5980-2182E

CDMA Basics

H7216B-312 (1 day)

This course provides technicians with a fundamental understanding of CDMA technology and provides a hands-on classroom environment to learn about the block diagram of a mobile and how to measure and find faults. This experience enhances the productivity of technicians in the production environment who do testing, rework, and support. By taking knowledge of the CDMA system together with measurement theory, the student will have the tools and knowledge necessary to be faster and more effective in working with mobile phones.

Prerequisites: RF Measurement Basics or equivalent.

Publication Number: 5988-4502EN

Training Courses (Continued)

Agilent 89600 Vector Signal Analyzer Course

H7216B-325 (1 day)

This course is recommended to first-time users of the Agilent 89600-vector signal analyzer. No previous knowledge of the product or technology is required. Through instructor led lectures and labs, the student will learn what a vector signal is, how it works, how to load and operate the analyzer and apply this tool to typical problems found in modern transceivers.

Prerequisites: Basic RF electronics background.

Agilent 89600 Vector Signal Analyzer Basics

H7216B-327 (2 days)

This course includes both theory and operation of the Agilent 89600 vector signal analyzer. Engineers and technicians who require background understanding of sampling and measurement techniques will benefit from this course. Theory and operation are combined with lecture and labs focusing on sampling fundamentals, product setup, operation and signal analysis of a variety of digital communication systems.

Prerequisites: Basic electrical engineering concepts

Publication Number: 5989-0977EN

Wireless LAN Technology Fundamentals

H7216B-337 (1 day)

This technology course provides the student with an overview of the standards for Wireless Networking and their applications. It includes technical detail of the IEEE 802.11 standards and protocols. It ends with a discussion of RF design issues and interoperability of Wireless LAN (WLAN) devices and the concepts of OFDM being deployed in the newer generation of WLAN standards.

Prerequisites: None

Publication Number: 5988-7712EN

Training Courses (Continued)

VEE Update/Database Topics

H7218X-100 (2 days)

In this 2 day course you will learn about the new features in VEE Pro 9.0 and how the new integrated database support can help manage and draw conclusions from your test data.

This course will present detailed instruction, explanation and training for advanced programming of the current version of VEE Pro with a focus on database utilization.

What you will Learn

- What's new in VEE Pro 9.0
- Fundamentals of database technology
- Accessing databases from VEE
- Mapping VEE data into database-specific types
- Querying the database from VEE

Prerequisites: Students must have taken "Introduction to VEE Pro" or have at least six months experience in VEE Pro program development.

Publication Number: 5990-5936EN

Introduction to Agilent VEE Pro

Agilent-Training Center:

H7218A-200 (4 days)

Customer Site Training:

H7218B-200 (4 days)

Learn to solve your test problems by developing programs with the Agilent Visual Engineering Environment (VEE) programming language. Understand the fundamentals of Agilent VEE Pro software – how to develop, debug, and maintain Agilent VEE Pro programs. Gain hands-on experience building programs that collect data from instruments, analyze the data, and display it. Learn to build an easy to use operator interface.

Prerequisites: Prior experience in programming may enhance your ability to more quickly absorb the concepts presented. A working knowledge of Microsoft Windows is also helpful in this course.

Publication Number: 5965-6693EN

Training Courses (Continued)

Advanced Agilent VEE Pro

Agilent-Training Center:

H7218A-300 (4 days)

Onsite-Training:

H7218B-300 (4 days)

Perform interrupt driven instrument programming for shorter measurement times. Design efficient, well-structured VEE Pro programs. Integrate VEE Pro with C/C++[®] compiled programs. Explore power of ActiveX technology. Implement routines using MATLAB Script.

Prerequisites: Introduction to Agilent VEE Pro or six months' experience in VEE program development.

Publication Number: 5988-1964ENUS

Digitizing Oscilloscope Fundamentals

H7240B-100 (1/2 day)

Upon completion of this course, the students have an in depth understanding of the operation and measurement techniques with a digitizing oscilloscope. The practical lab exercises are performed with an Agilent Infinium oscilloscope.

Prerequisites: RF & Microwave Fundamentals.

Publication Number: 5988-3440EN

Digital Testing Using Logic Analyzers

H7240B-104 (1 day)

Learn to configure and use the Agilent 16700 series of logic analysis tools to design and debug digital systems. Develop an understanding of logic analyzers that will allow the user to use this powerful debug tool more effectively in applying their intuition to tough digital design problems. Gain insight into the full range of logic analyzer capabilities through background presentations and reinforcing examples. Equip student with knowledge essential to using a logic analyzer, focusing on areas where users will typically spend the most time. Learning is reinforced with demo-style laboratories that can be repeated at the student's convenience using provided course materials.

Prerequisites: Basic understanding of digital circuits.

Publication Number: 5988-3633EN

Training Courses (Continued)

Digital Test Using 16900 Logic Analyzer

H7240B-105 (1 day)

This one day course helps you learn the practical use of the Agilent 16900 series logic analyzers. Users who have a basic understanding of digital circuits will learn basic operation of the logic analyzer, when to use State and Timing modes, adding plug-in modules, the advantages of various triggering modes and how to configure the analyzer to measure high speed signals.

Prerequisites: Basic understanding of digital circuits

Publication Number: 5989-1253EN

Test Automation Services

Test Data Management

Agilent's Test Data Management service offers structured and organized storage of test data and test results. This provides easy access for further analysis and reporting. Analysis includes raw measurement data, database design and development of relevant reports that describe your process.

Publication Number: 5988-5363EN

Test Code Development

Agilent's Test Code Development service provides software development for automated engineering and manufacturing test systems. Consultants apply expertise in VEE, Visual Basic, C, C++ and Visual C®, along with test automation experience, to automate your measurements, optimize system performance and minimize test time.

Publication Number: 5988-5354EN

ParBERT Automation

This service provides assistance with the development and implementation of custom test software to automate 812xx system control. This software can be written in a variety of languages (Agilent VEE Pro, LabView®, Visual Basic or C++) based upon your specific requirements.

Publication Number: 5988-5365EN

Test Automation Services (Continued)

Test ExecSL Action Development

Agilent's Test ExecSL Action Development service involves generating actions for test systems using Agilent's Test Executive – Test ExecSL. This service is available for both a custom test system using Test ExecSL or with Agilent TS5400 and TS5500 functional test systems.

Publication Number: 5988-5357EN

Test Code Conversion

Agilent's Test Code Conversion service provides assistance with upgrading or converting test programs to a different programming language.

Publication Number: 5988-5364EN

Test System Uncertainty Analysis

This service provides assistance with understanding and quantifying measurement uncertainties for complete manufacturing test systems, including vector network analyzers and spectrum analyzers.

Publication Number: 5988-5361EN

Test Automation Services (Continued)

Test System Design

Agilent's Test System Design service is a structured and planned set of engineering activities that lead to the functional design of a test and measurement system. This system will proficiently meet your needs as defined by a requirement specification. If a specification is not available, it can be developed as part of the Test System Design service or as a formal System Requirement Development process depending on the size and complexity of the anticipated final system. The deliverable produced by this activity is called Functional Design Specification.

Publication Number: 5988-5356EN

Test Plan Development

Agilent's Test Plan Development service provides planning assistance to optimize test time, test effectiveness and automated software development.

Publication Number: 5988-5355EN

Network Analyzer Services

Understanding VNA Measurements

Agilent's VNA Measurement Assistance service offers assistance in using an Agilent Vector Network Analyzer in your application. The service takes place at customer site and includes an investigation of the best measurement technique and calibration method required for the in depth evaluation of your DUT.

Publication Number: 5988-5371EN

Understanding VNA Time Domain Analysis

Agilent's Understanding VNA Time Domain Analysis consulting service provides training on how to use the time domain function of the VNA. VNA time domain analysis can be used to locate Device Under Test (DUT) faults or filter turning.

Publication number: 5988-5372EN

Test System Uncertainty Analysis

This service provides assistance with understanding and quantifying measurement uncertainties for complete manufacturing test systems, including vector network analyzers and spectrum analyzers.

Publication Number: 5988-5361EN

Wireless Communication Services

Using a VSA to make 802.11 Measurements

This two-day on-site VSA measurement and troubleshooting engineering service is focused on Wireless LAN physical layer measurements. The objective of this service is to rapidly increase engineers' effectiveness setting up a VSA, making VSA measurements, and troubleshooting IEEE 802.11 a/b circuits with the VSA. Essential Wireless LAN measurements, results analysis, and signal impairments will be addressed.

Publication Number: 5988-7476EN

Custom Waveforms for ESG Signal Generators

Agilent's Waveform Generation for ESG Signal Generators service provides instructions on how to create custom signals and waveforms for the Agilent family of ESG signal generators, as well as understand how to integrate the ESG signal generators into your environment. The services takes place at customer site and includes:

- Creation of custom waveform(s)
- Source code for developed algorithms and programs
- A report detailing the features and specifications of the waveform generated
- Files delivered on a floppy or CD, or loaded onto your ESG signal generator

Publication Number: 5988-5373EN

Digital Design and Test Services

PCI/PCI-X Characterization and Debug

This service provides expert assistance with your PCI/PCI-X problems. This service can include assistance with PCI/PCI-X debugging and validation, as well as consulting related to debug approaches and validation methodologies.

Publication Number: 5988-5369EN

Logic Analyzer Probing Evaluation Service

Agilent's Logic Analyzer Probing Evaluation service provides assistance with the design-in issues of high-speed digital probing in your environment.

Publication Number: 5988-5376EN

Measurement and Debug Assistance

Agilent's Measurement and Debug Assistance service provides measurement and debug expertise to accelerate product development and validation.

Publication Number: 5988-5370EN



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Remove all doubt

Our repair and calibration services will get your equipment back to you, performing like new, when promised. You will get full value out of your Agilent equipment throughout its lifetime. Your equipment will be serviced by Agilent-trained technicians using the latest factory calibration procedures, automated repair diagnostics and genuine parts. You will always have the utmost confidence in your measurements. For information regarding self maintenance of this product, please contact your Agilent office.

Agilent offers a wide range of additional expert test and measurement services for your equipment, including initial start-up assistance, onsite education and training, as well as design, system integration, and project management.

For more information on repair and calibration services, go to:

www.agilent.com/find/removealldoubt

www.agilent.com
www.agilent.com/find/oct

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

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Switzerland	0800 80 53 53
United Kingdom	44 (0) 118 9276201

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