



LTE-Advanced RF Conformance Test System

ME7873LA



Pioneering Future Communications

GCF/PTCRB Approved Test Cases
World's First and Most Test Cases



3GPP-Compliant LTE-Advanced Standards

Most Approved Test Cases

Secure Reliability with World's First and Most Test Cases

Unlike early mobile terminals supporting voice communications between specific carriers, today's mobile technologies and communications environment support cross-border global roaming communications between all carriers based on rapid advances in Gbps broadband communications. Conformance tests are the key to verifying that performance meets the standards assuring that the communications environment functions smoothly without phone-to-carrier network connection problems.

The LTE-Advanced RF Conformance Test System ME7873LA automates RF and RRM tests for mobiles supporting the latest 3GPP standards. In addition to legacy W-CDMA, the futureproof ME7873LA supports both the latest LTE-Advanced standard and newer standards under discussion. As well as R&D test functions, FDD and TDD mobile frequency bands are supported along with freely customized system configurations for TRx, Performance and RRM tests.

World's First LTE 3CA GCF/LTE 5CA PTCRB Validation

LTE-Advanced RF Conformance Test System ME7873LA has obtained the world's first LTE 3CA PTCRB certification at September 2015. And ME7873LA has obtained more than 80% world's first LTE 3CA GCF certification at April 2016. Moreover it has obtained LTE 5CA PTCRB certification at June 2018.

Industry-first Test Case Validation

Standards-compliant terminals and test platforms are key to acquiring GCF/PTCRB certification. When requested, Anritsu provides in-house validated Test Cases before acquiring certification.

Supports Global Mobile Terminals

The ME7873LA is fully 3GPP-compliant and supports all standards-compliant frequency bands. It can test almost all mobiles used worldwide.

Test System with Stable Measurement

Auto-correction before measurement eliminates drift due to temperature changes, greatly improving measurement stability.

Measurement Functions for Efficient R&D

The easy-to-use GUI supports a search mode for Rx and performance tests, automatic extraction and retry for failed tests, SS log viewer, and simple parameter changes for efficient R&D and approval tests.



LTE-Advanced RF Conformance Test System ME7873LA Features

RF/RRM Conformance Test System Supporting Most and First GCF/PTCRB Approved TCs

Supporting Most and First GCF^{*1}/PTCRB^{*2} Approved Test Cases^{*3}

This GCF/PTCRB-compatible test platform targets the most and first Test Cases approved at quarterly GCF/PTCRB meetings.

It uses the Signalling Tester MD8430A as a LTE base station simulator, and is configured from various test instruments and dedicated software. It supports RF/RRM tests while communicating with LTE mobile terminals.

Supports Latest 3GPP Standards

This system is for testing the RF TRx characteristics, performance requirements, and RRM performance of FDD/TDD LTE mobile terminals in compliance with the requirements of 3GPP TS 36.521-1 Chapter 6 (Transmitter Characteristics), Chapter 7 (Receiver Characteristics), Chapter 8 (Performance Requirement), Chapter 9 (Reporting of Channel State Information), Chapter 10 (MBMS Performance) and TS 36.521-3 RRM^{*4} including LTE → GSM/UMTS/CDMA2000/TD-SCDMA Inter-RAT tests.

TS 34.121-1 UMTS → LTE and TS 34.122 TD-SCDMA → LTE Inter-RAT tests are also supported.

Moreover, UMTS 3GPP TS 34.121-1 Rel-7/8 tests are supported.^{*5}

LTE-Advanced Pro, such as LAA and Cat-M/NB-IoT, Joint CA up to 5CA, 4×4 MIMO, and HPUE are supported too.

Supports Mobile Terminal Carrier Acceptance Tests

This single, multi-purpose platform supports acceptance tests mainly for North American operators, as well as 3GPP RF/RRM conformance tests.

***1:** GCF (Global Certification Forum):

Certifies conformance to standards for mobile terminals and test systems. Composed mainly of operators, mobile terminal vendors and chipset vendors and performs certification for frequency bands used in Europe.

***2:** PTCRB (PCS Type Certification Review Board):

A similar test system certification organization to GCF composed mainly of N. American carriers and UE vendors and performing conformance certification for frequency bands used in N. America.

***3:** As of June, 2018.

***4:** RRM: Radio Resource Management

***5:** In principle, defined by GCF Work Item^{*6} and targeting measurement items certified by GCF/PTCRB.

(Contact your Anritsu sales representative for timing of supported items and option configurations.)

***6:** Work Item:

Name of function test items selected by GCF for mobile terminal approval.

Supports Global Mobile Terminals

Not only are GCF/PTCRB-approved Bands planned for use in Europe and North America fully supported, but the following bands defined by 3GPP are also supported too. Unlisted bands can be supported by request.

Operating Band	UL Frequencies (MHz)	DL Frequencies (MHz)
1	1920 to 1980	2110 to 2170
2	1850 to 1910	1930 to 1990
3	1710 to 1785	1805 to 1880
4	1710 to 1755	2110 to 2155
5	824 to 849	869 to 894
6	830 to 840	875 to 885
7	2500 to 2570	2620 to 2690
8	880 to 915	925 to 960
9	1749.9 to 1784.9	1844.9 to 1879.9
10	1710 to 1770	2110 to 2170
11	1427.9 to 1447.9	1475.9 to 1495.9
12	698 to 716	728 to 746
13	777 to 787	746 to 756
14	788 to 798	758 to 768
17	704 to 716	734 to 746
18	815 to 830	860 to 875
19	830 to 845	875 to 890
20	832 to 862	791 to 821
21	1447.9 to 1462.9	1495.9 to 1510.9
24	1626.5 to 1660.5	1525 to 1559
25	1850 to 1915	1930 to 1995
26	814 to 849	859 to 894
27	807 to 824	852 to 869
28	703 to 748	758 to 803
29	N/A	717 to 728
30	2305 to 2315	2350 to 2360
31	452.5 to 457.5	462.4 to 467.5
32	N/A	1452 to 1496
33	1900 to 1920	1900 to 1920
34	2010 to 2025	2010 to 2025
35	1850 to 1910	1850 to 1910
36	1930 to 1990	1930 to 1990
37	1910 to 1930	1910 to 1930
38	2570 to 2620	2570 to 2620
39	1880 to 1920	1880 to 1920
40	2300 to 2400	2300 to 2400
41	2496 to 2690	2496 to 2690
42	3400 to 3600	3400 to 3600
46	5150 to 5925	5150 to 5925
48	3550 to 3700	3550 to 3700
66	1710 to 1780	2110 to 2200
71	663 to 698	617 to 652

LTE-Advanced RF Conformance Test System ME7873LA Features

Focus on Improving Test Efficiency, Measurement Stability and Reliability

Continuous Testing of Multiple Terminals

Since the standard system configuration has four RF interfaces, it can test up to four terminals continuously. Fully automated testing of multiple terminals is supported by DC power supply and serial control line auto-switching.

Control via Networks

The PC server in the rack can be operated remotely over a network. Measurement progress can be monitored remotely and measurement sequences can be created and edited, allowing tests to be run while working elsewhere.

*: Contact your Anritsu sales representative for details.

Easy Control of External Devices

The system software has built-in functions for controlling the DC power supply* and temperature chamber* in the same way as selecting test items. Using these standard functions makes automation easy.

*: Users must provide the DC power supply and temperature chamber. Refer to the ordering information for recommended models.

RED-compliant Test Items (option)

This option is fully compliant with the European ETSI-defined Radio Equipment Directive (RED) RF TRx test items. Anritsu launched this European-test-house approved option ahead of market competitors. Simple operation supports easy RED-compliant tests like normal test items.

Improve Reliability using Correction Function

System measurement stability and reliability are improved by the following three calibration and correction methods:

- Basic calibration at acceptance inspection
- Auto-calibration at work start
- Individual measurement correction

Individual measurement correction immediately before measurement eliminates temperature-related drift and greatly improves the reliability of measurements.

In addition, Anritsu engineers perform basic calibration when installing the system at acceptance inspection, eliminating the need for operators to perform this complex calibration and correction work.

Detailed Support System

An Anritsu Support Service contract keeps the system operating at peak performance, maximizing return on investment, minimizing downtime, and keeping work on schedule.

- Latest software updates matching the latest changes to the 3GPP standards
- Information on 3GPP trends, consultation and technical support for troubleshooting test problems
- Free hardware repair and maintenance with a back-up loan unit

Specifications

LTE-Advanced RF Conformance Test System ME7873LA

Input and Output connector	N-type, 50Ω	
Max. Input Level	+35 dBm	
Reference Oscillator	MS2692A (with option-001/037 Rubidium Reference Oscillator) as standard External oscillator signal input available (Frequency: 10 MHz, Connector: BNC)	
Frequency Range	Frequency range defined on 3GPP E-UTRA Operating Band 1 to 14, 17 to 21, 24 to 42, 46, 66 and 71.	
Temperature Range	15° to 35°C (operating), 0 to 50°C (storage)* ¹	
Power Supply (Rating)	Select either 100 V(ac) to 120 V(ac) or 200 V(ac) to 240 V(ac), 50 Hz/60 Hz ≤7700 VA ² (Full system configuration)	
Dimensions	1710 (W) × 1980 (H) × 797 (D) mm ³ (Full system configuration)	
Mass	≤830 kg ⁴ (Full system configuration)	
CE	EMC	2014/30/EU, EN61326-1, EN61000-3-2
	LVD	2014/35/EU, EN61010-1
	RoHS	2011/65/EU, EN50581

*1: Ambient temperature

Basic calibration at acceptance inspection must meet this requirement.
Use in air-conditioned room recommended for stable measurement.

*2: Power consumption

Sufficient power (600 VA) for basic calibration at acceptance inspection as well as for ME7873LA must be supplied.

*3: Topple prevention

Secure using hooks at rack top recommended.

*4: Mass/Floor Loads

The installation location must be able to safely bear the above floor loads plus 100 kg for basic calibration equipment at acceptance inspection.

Supported Test Standards

The system design is based on the following standards:

3GPP TS 36.521-1

E-UTRA UE Conformance Specification Radio Transmission and Reception Part 1: Conformance Testing

3GPP TS 36.521-3

E-UTRA UE Conformance Specification Radio Transmission and Reception Part 3: RRM Conformance Testing

3GPP TS 34.121-1

User Equipment (UE) conformance specification; Radio transmission and reception (FDD);

Part 1: Conformance specification

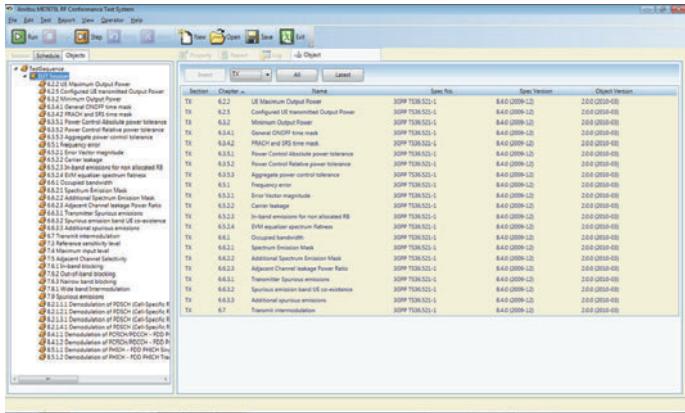
Release 8, 9, 10, 11, 12 and 13 of above standards is also supported. Contact our sales representative for detailed of the supported versions.

LTE-Advanced RF Conformance Test System ME7873LA Functions

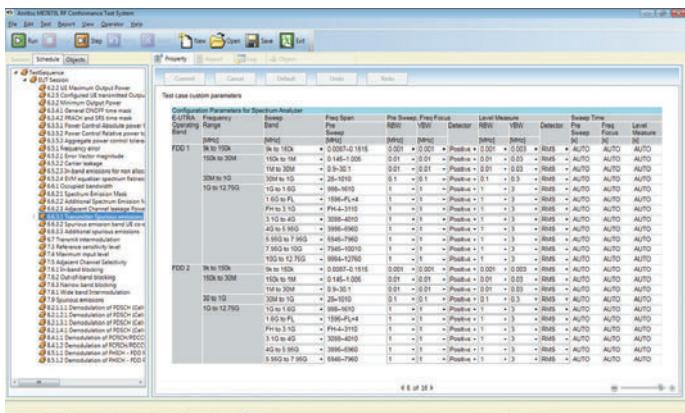
Convenient Functions for Wide Range of Applications

Easy Sequence Creation and Editing

The creation and editing procedure is as easy as selecting the test case to measure from the task pane (below) and clicking [Insert] to create the sequence. Select the created test case and double click [Schedule] at the screen bottom left to display detailed parameters. The measurement frequency and channel bandwidth can be changed here too.



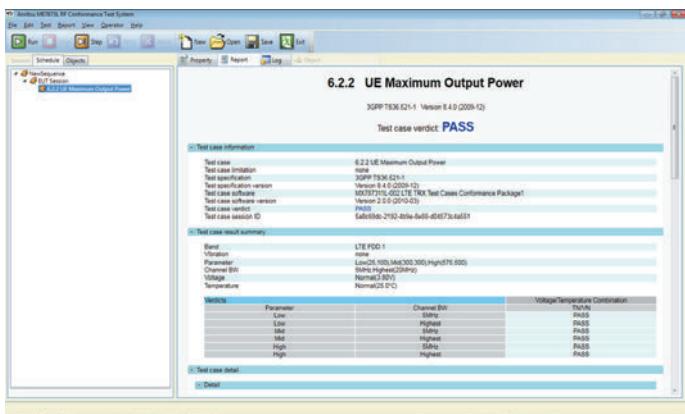
Sequence Creation Screen



Parameter Changing Screen

Easy-to-use Main Screen for Key Operations

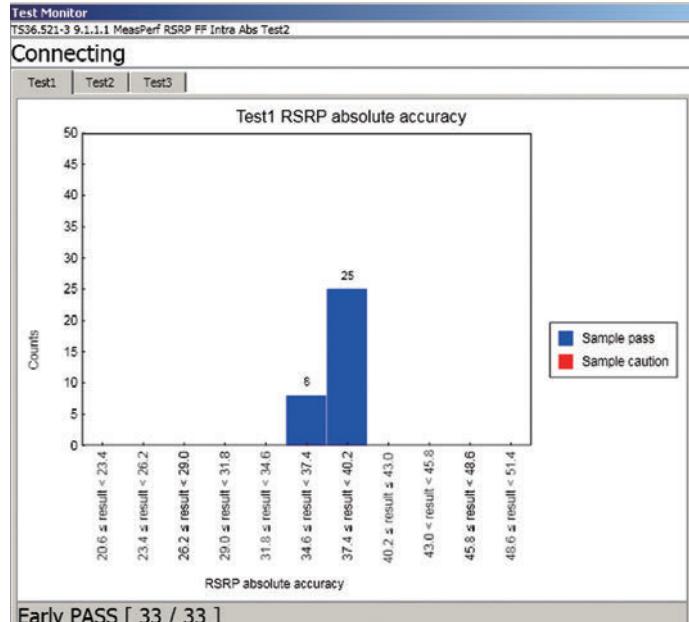
The screen toolbar icons for key operations are easy to understand. Test sequence items are displayed at top left and test results are displayed at screen center.



Measurement Results

At-a-glance Measurement Results Histogram

The RRM test has many test items for PASS/FAIL evaluations of multiple operations. The histogram display helps understand detailed mobile operation trends at-a-glance.



Early PASS [33 / 33]

RRM Measurement Distribution

Check Measurement Progress

The current measurement progress is easily confirmed because the Signalling Tester MD8430A displays real-time logs during measurement. In addition, failed results are easily seen from the message exchanges between the tester and mobile sides, supporting easy problem troubleshooting.

A screenshot of a terminal window titled 'ES-Sequence Display MD8430A08A'. It shows a log of messages exchanged between the tester and the mobile side. Key messages include 'SRSConfigException.CyclicShift : 0', 'SchedReqException.Scheduled Request : SETUP', 'SchedReqException.SR_FUCCH_ResourceIndex : 41', 'SchedReqException.SR_ConfigIndex : 30', 'SchedReqException.DER_Transmax : 4', 'EquivalentPLMN : Not Used', 'FrameTimeout : 180000', 'ReportInterval : 180000', 'Timeout : 1000', and various RRC connection requests and responses.

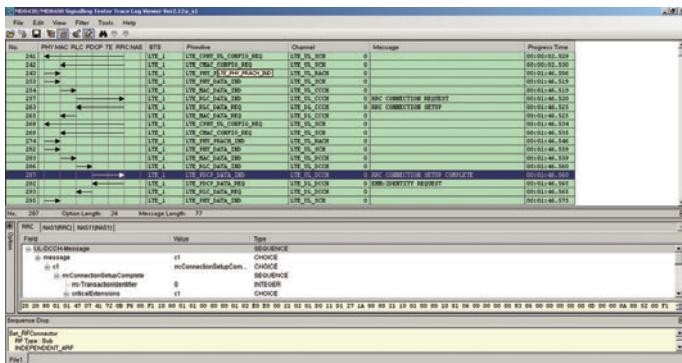
Real-time SS Log Display

LTE-Advanced RF Conformance Test System ME7873LA Functions

Convenient Functions for Wide Range of Applications (continued)

Measurement Log Analysis

Signalling Tester MD8430A measurement logs are saved automatically for detailed checking and troubleshooting with standard log viewer software.



SS Log Viewer Display

Measured Data Management

Measurement results are confirmed at the Measurement Result screen and saved either as HTML for easy confirmation or as XML/CSV for easy database management. Moreover, HTML report files are linked to the signalling logs for each measurement, cutting search times for required information.

6.6.1 Occupied bandwidth

3GPP TS36.521-1 Version 9.6.0 (2011-09)

Test case verdict: PASS

Session information

- Test platform software: Version 2.06.00
- Note: SysSupport

EUT information

- EUT Hardware Information: UE-G
- EUT Firmware Information: ETSI TS 33.101
- EUT Model Number: ETSI TS 33.101
- Eut Power Class: Power Class 3
- Eut Release Version: Release 8
- UE HS-DSCH Category:
- UE E-DCH Category:
- LTE Category: Category 3
- Antenna Port: Generic1
- EUT Session ID: 642d138-6e0e-429a-ad10-934ac391d50a

Test case information

- Test case: 6.6.1 Occupied bandwidth
- Test case limitation: none
- Test specification: ETSI TS 33.101-1
- Test configuration version: Version 9.6.0 (2011-09)
- Test case software: MNT57112_RF Conformance Test Software 2.06.04
- Test case software version: Version 2.0.0 (2011-10)
- Test case verdict: PASS
- Test case version ID: f154d4bb-e1ef-46f6-a99e-2ebddc4210ac

Test case result summary

Band	LTE FDD 25
Vibration	none
Parameter	Mid(3365,3365)
Channel BW	5MHz,10MHz
Voltage	Nom(3.3V)
Temperature	Nom(25.0°C)

Verdicts

Parameter	Channel BW	Voltage-Temperature Combination
Mid	5MHz	PASS
Mid	10MHz	PASS

Test case configuration

Test case detail

Band	LTE FDD 25
Vibration	none
Parameter	Mid(3365)
Channel BW	Nom(5MHz)
Voltage	VNS(3.3V)
Temperature	TNS(25.0°C)
Signaling log	SS_Log_00_0000_20111124_230049.822.log

Verdict

Description	Requirement	Date	User	Exit	Comment	Duration
PASS	Channel bandwidth not exceed 5.00 [MHz]	4-453124	=>0.06 [MHz]			00:00:12

Spectrum

Start: 1.875 000 000 00 GHz Stop: 1.887 000 000 00 GHz

Center: 1.882 500 000 GHz QSW Center: 1.882 502 882 GHz QSW Lower: 1.881 279 330 GHz QSW Upper: 1.884 731 446 GHz

Frequency and Time: 4.603 125 MHz Ref. Level: -34.88 dBm Trigger: Free Run

Ref. Level Dels.: 8.87 dB Capture Length: 1.000 00 ms Attenuator: 42 dB

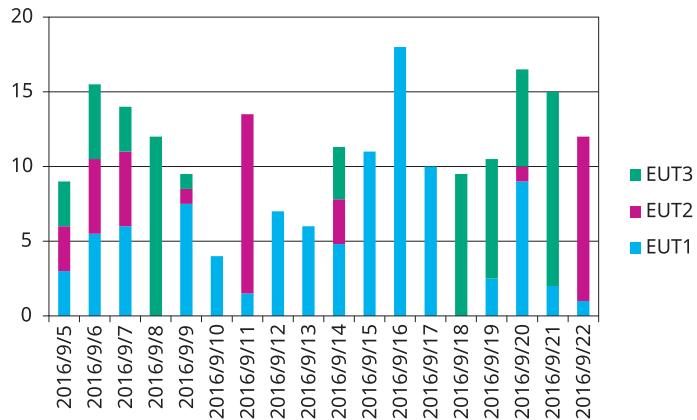
Calibration: 1.882 500 000 GHz Frequency: 4.603 125 MHz

Filter: Pre-Acc. Off Trace Point: 2049

Measurement Report (HTML)

System Usage Analysis

To support various usage-data analyses, this system outputs data for the measured frequency band EUT, frequency band, and measurement time.



Analysis Examples of Daily System Usage Ratio by EUT

LTE-Advanced RF Conformance Test System ME7873LA Ordering Information

Please specify the model/order number, name and quantity when ordering.

The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

Model/Order No.	Name	Model/Order No.	Name
ME7873LA	Main frame LTE-Advanced RF Conformance Test System Configuration items RF Front End Combiner Unit Combiner Unit Filter Unit Filter Block Filter Block2 Filter Block3 LTE Uplink Signal Filter Uplink Signal Filter Universal USB Power Sensor Signal Analyzer Signalling Tester Vector Signal Generator MG3692C 2 GHz - 20 GHz Signal Generator Signalling Tester User Operation PC User Operation PC Server PC	MX787361LA-021 MX787361LA-022 MX787361LA-023 MX787361LA-032 MX787361LA-033 MX787361LA-042 MX787361LA-043 MX787361LA-047 MX787361LA-052 MX787361LA-063 MX787361LA-064 MX787361LA-071 MX787361LA-072 MX787361LA-073 MX787361LA-078 MX787361LA-079 MX787361LA-081 MX787361LA-087 MX787361LA-095 MX787361LA-096 MX787312LA MX787312LA-001 MX787312LA-002 MX787312LA-003 MX787312LA-004 MX787312LA-007 MX787312LA-011 MX787312LA-012 MX787312LA-017 MX787312LA-021 MX787312LA-031 MX787312LA-032 MX787312LA-033 MX787312LA-034 MX787312LA-037 MX787312LA-041 MX787312LA-051 MX787312LA-056 MX787312LA-063 MX787312LA-065 MX787312LA-072 MX787312LA-081 MX787312LA-087 MX787362LA MX787362LA-001 MX787362LA-002 MX787362LA-003 MX787362LA-005 MX787362LA-007 MX787362LA-011 MX787362LA-012 MX787362LA-017 MX787362LA-021 MX787362LA-031 MX787362LA-032 MX787362LA-033 MX787362LA-037 MX787362LA-041 MX787362LA-043 MX787362LA-072 MX787362LA-081 MX787362LA-087 MX787313LA MX787313LA-001 MX787313LA-002 MX787313LA-003 MX787313LA-007 MX787313LA-011 MX787313LA-012 MX787313LA-013 MX787313LA-017 MX787313LA-031 MX787313LA-032 MX787313LA-033 MX787313LA-037 MX787313LA-072 MX787313LA-081 MX787313LA-087 MX787363LA MX787363LA-011 MX787363LA-012 MX787363LA-013 MX787363LA-017 MX787363LA-031 MX787363LA-032 MX787363LA-033 MX787363LA-037 MX787363LA-072 MX787363LA-081 MX787363LA-087 TD-LTE Test Software TRX Test Cases Performance Test Cases RRM Test Cases LTE to W-CDMA/GSM Test Cases W-CDMA to GSM Test Cases W-CDMA Test Case for China FDD LTE Test Software TRX Test Cases Performance Test Cases RRM Test Cases LTE to W-CDMA/GSM Test Cases RRM Test Cases LTE to C2K Test Cases Sustained Data Throughput Test Cases TRX Test Cases for UL64QAM Rel-9 eMBMS Performance Test Cases TRX Test Cases for HPUE Rel-10 eICIC Performance Test Cases Rel-10 eICIC RRM Test Cases Rel-11 eICIC Performance Test Cases Rel-11 eICIC RRM Test Cases eDL-MIMO Performance Test Cases Rel-10 Enhancement RRM Test Cases Enhanced Performance Type A Test Cases Rel-12 Enhancement RRM Test Cases Rel-12 FDD/TDD Dual Mode Test Cases TRX Test Cases with 4Rx antenna Performance Test Cases with 4Rx (3-4 Layer) RRM Test Cases with 4Rx Performance Test Cases with 4Rx (1-2 Layer) SDR and CQI Test Cases with 4Rx (3-4 Layer) DL256QAM TRX Test Cases DL256QAM Performance Test Cases RF Test Case for China RRM Test Case for China FDD CA Test Software TRX Test Cases Performance Test Cases RRM Test Cases LTE to W-CDMA Test Cases Sustained Data Throughput Test Cases TRX Test Cases CO Performance Test Cases CO Sustained Data Throughput Test Cases CO TRX Test Cases CO/U TRX Test Cases NC Performance Test Cases NC RRM Test Cases NC LTE to W-CDMA Test Cases NC Sustained Data Throughput Test Cases NC TRX Test Cases CO/U for UL64QAM TRX Test Cases UL CA TRX Test Cases UL CA for UL64QAM Rel-12 Enhancement RRM Test Cases Rel-12 Enhancement RRM Test Cases2 Performance Test Cases with 4Rx antenna DL256QAM TRX Test Cases DL256QAM Performance Test Cases TD-LTE CA Test Software TRX Test Cases Performance Test Cases RRM Test Cases LTE to TD-SCDMA Test Cases Sustained Data Throughput Test Cases TRX Test Cases CO Performance Test Cases CO TD-LTE CA Test Software TRX Test Cases Performance Test Cases RRM Test Cases LTE to TD-SCDMA Test Cases Sustained Data Throughput Test Cases TRX Test Cases CO/U for UL64QAM RRM Test Cases TRX Test Cases CO Performance Test Cases CO Sustained Data Throughput Test Cases CO TRX Test Cases CO/U TRX Test Cases NC Performance Test Cases NC RRM Test Cases NC Sustained Data Throughput Test Cases NC TRX Test Cases CO/U for UL64QAM RRM Test Cases2 Performance Test Cases with 4Rx antenna DL256QAM TRX Test Cases DL256QAM Performance Test Cases FDD 3CA Test Software TRX Test Cases Performance Test Cases RRM Test Cases Sustained Data Throughput Test Cases TRX Test Cases 1B Performance Test Cases 1B RRM Test Cases 1B Sustained Data Throughput Test Cases 1B TRX Test Cases 2B Performance Test Cases 2B RRM Test Cases 2B Sustained Data Throughput Test Cases 2B Performance Test Cases with 4Rx antenna DL256QAM TRX Test Cases DL256QAM Performance Test Cases TD-LTE 3CA Test Software TRX Test Cases 1B Performance Test Cases 1B RRM Test Cases 1B Sustained Data Throughput Test Cases 1B TRX Test Cases 2B Performance Test Cases 2B RRM Test Cases 2B Sustained Data Throughput Test Cases 2B Performance Test Cases with 4Rx antenna DL256QAM TRX Test Cases DL256QAM Performance Test Cases	TRX Test Cases for HPUE Rel-10 eICIC Performance Test Cases Rel-10 eICIC RRM Test Cases Rel-11 eICIC Performance Test Cases Rel-11 eICIC RRM Test Cases eDL-MIMO Performance Test Cases Rel-10 Enhancement RRM Test Cases Enhanced Performance Type A Test Cases Rel-12 Enhancement RRM Test Cases Rel-12 FDD/TDD Dual Mode Test Cases TRX Test Cases with 4Rx antenna Performance Test Cases with 4Rx (3-4 Layer) RRM Test Cases with 4Rx Performance Test Cases with 4Rx (1-2 Layer) SDR and CQI Test Cases with 4Rx (3-4 Layer) DL256QAM TRX Test Cases DL256QAM Performance Test Cases RF Test Case for China RRM Test Case for China FDD CA Test Software TRX Test Cases Performance Test Cases RRM Test Cases LTE to W-CDMA Test Cases Sustained Data Throughput Test Cases TRX Test Cases CO Performance Test Cases CO Sustained Data Throughput Test Cases CO TRX Test Cases CO/U TRX Test Cases NC Performance Test Cases NC RRM Test Cases NC LTE to W-CDMA Test Cases NC Sustained Data Throughput Test Cases NC TRX Test Cases CO/U for UL64QAM TRX Test Cases UL CA TRX Test Cases UL CA for UL64QAM Rel-12 Enhancement RRM Test Cases Rel-12 Enhancement RRM Test Cases2 Performance Test Cases with 4Rx antenna DL256QAM TRX Test Cases DL256QAM Performance Test Cases TD-LTE CA Test Software TRX Test Cases Performance Test Cases RRM Test Cases LTE to TD-SCDMA Test Cases Sustained Data Throughput Test Cases TRX Test Cases CO/U for UL64QAM RRM Test Cases TRX Test Cases CO Performance Test Cases CO TD-LTE CA Test Software TRX Test Cases Performance Test Cases RRM Test Cases LTE to TD-SCDMA Test Cases Sustained Data Throughput Test Cases TRX Test Cases CO/U for UL64QAM RRM Test Cases2 Performance Test Cases with 4Rx antenna DL256QAM TRX Test Cases DL256QAM Performance Test Cases FDD 3CA Test Software TRX Test Cases Performance Test Cases RRM Test Cases Sustained Data Throughput Test Cases TRX Test Cases 1B Performance Test Cases 1B RRM Test Cases 1B Sustained Data Throughput Test Cases 1B TRX Test Cases 2B Performance Test Cases 2B RRM Test Cases 2B Sustained Data Throughput Test Cases 2B Performance Test Cases with 4Rx antenna DL256QAM TRX Test Cases DL256QAM Performance Test Cases TD-LTE 3CA Test Software TRX Test Cases 1B Performance Test Cases 1B RRM Test Cases 1B Sustained Data Throughput Test Cases 1B TRX Test Cases 2B Performance Test Cases 2B RRM Test Cases 2B Sustained Data Throughput Test Cases 2B Performance Test Cases with 4Rx antenna DL256QAM TRX Test Cases DL256QAM Performance Test Cases

LTE-Advanced RF Conformance Test System ME7873LA Ordering Information

Model/Order No.	Name
MX787314LA	FDD 4CA Test Software
MX787314LA-001	TRX Test Cases
MX787314LA-002	Performance Test Cases
MX787314LA-003	RRM Test Cases
MX787314LA-071	TRX Test Cases with 4Rx antenna
MX787364LA	TDD 4CA Test Software
MX787364LA-001	TRX Test Cases
MX787364LA-071	TRX Test Cases with 4Rx antenna
MX787315LA	FDD 5CA Test Software
MX787315LA-001	TRX Test Cases
MX787315LA-002	Performance Test Cases
MX787315LA-003	RRM Test Cases
MX787315LA-081	DL256QAM TRX Test Cases
MX787322LA	FDD-TDD 2CA Test Software
MX787322LA-001	TRX Test Cases
MX787322LA-002	Performance Test Cases
MX787322LA-003	RRM Test Cases
MX787322LA-007	Sustained Data Throughput Test Cases
MX787322LA-011	TRX Test Cases for TDD PCell
MX787322LA-012	Performance Test Cases for TDD PCell
MX787322LA-013	RRM Test Cases for TDD PCell
MX787322LA-017	SDT Test Cases for TDD PCell
MX787322LA-051	TRX Test Cases UL CA
MX787322LA-056	TRX Test Cases UL CA for UL64QAM
MX787322LA-072	Performance Test Cases with 4Rx antenna
MX787322LA-081	DL256QAM TRX Test Cases
MX787322LA-087	DL256QAM Performance Test Cases
MX787323LA	FDD-TDD 3CA Test Software
MX787323LA-001	TRX Test Cases
MX787323LA-002	Performance Test Cases
MX787323LA-003	RRM Test Cases
MX787323LA-007	Sustained Data Throughput Test Cases
MX787323LA-031	TRX Test Cases 2B
MX787323LA-032	Performance Test Cases 2B
MX787323LA-033	RRM Test Cases 2B
MX787323LA-037	Sustained Data Throughput Test Cases 2B
MX787323LA-071	TRX Test Cases with 4Rx antenna
MX787323LA-072	Performance Test Cases with 4Rx antenna
MX787323LA-079	Performance Test Cases with 4Rx antenna
MX787323LA-081	DL256QAM TRX Test Cases
MX787323LA-085	DL256QAM TRX Test Cases with 4Rx antenna
MX787323LA-087	DL256QAM Performance Test Cases
MX787324LA	FDD-TDD 4CA Test Software
MX787324LA-001	TRX Test Cases
MX787324LA-002	Performance Test Cases
MX787324LA-003	RRM Test Cases
MX787324LA-071	TRX Test Cases with 4Rx antenna
MX787325LA	FDD-TDD 5CA Test Software
MX787325LA-001	TRX Test Cases
MX787325LA-002	Performance Test Cases
MX787325LA-003	RRM Test Cases
MX787325LA-071	TRX Test Cases with 4Rx antenna
MX787325LA-072	Performance Test Cases with 4Rx antenna
MX787325LA-073	RRM Test Cases with 4Rx antenna
MX787325LA-081	DL256QAM TRX Test Cases
MX787330LA	LAA Test Software
MX787330LA-001	LAA RX Test Cases
MX787330LA-002	LAA Performance Test Cases
MX787330LA-003	LAA RRM Test Cases
MX787330LA-071	LAA RX Test Cases with 4Rx antenna
MX787332LA	LAA 2CA Test Software
MX787332LA-011	LAA RX Test Cases with TDD Cell
MX787371LA	HD-FDD CAT-M1 Test Software
MX787371LA-001	TRX Test Cases
MX787371LA-002	Performance Test Cases
MX787371LA-003	RRM Test Cases
MX787376LA	HD-FDD NB-IoT Test Software
MX787376LA-001	TRX Test Cases
MX787376LA-002	Performance Test Cases
MX787376LA-003	RRM Test Cases
MX787340LA	Supplementary Test Software for Vzw
MX787340LA-001	Band4 Supplementary TRx Test Cases
MX787340LA-002	Band4 Supplementary Performance Test Cases
MX787340LA-003	Band2 Supplementary TRx Test Cases
MX787340LA-004	Band2 Supplementary Performance Test Cases
MX787340LA-005	Band13 Supplementary RF Test Cases
MX787340LA-006	Band13 Supplementary RRM Test Cases
MX787340LA-009	InterBand RRM Test Cases
MX787340LA-011	Band5 Supplementary TRx Test Cases
MX787340LA-012	Band13 Supplementary RRM feICIC Test Cases
MX787340LA-013	InterBand RRM feICIC Test Cases
MX787340LA-014	Band66 Supplementary TRx Test Cases
MX787340LA-015	Band66 Supplementary Performance Test Cases
MX787340LA-016	Band5 InterBand RRM Test Cases1
MX787340LA-017	Band66 InterBand RRM Test Cases1
MX787340LA-018	DL256QAM Supplementary RF Test Cases
MX787340LA-020	InterBand RRM Test Cases2
MX787340LA-021	Band5 InterBand RRM Test Cases2
MX787340LA-023	InterBand RRM Test Cases3

Model/Order No.	Name
MX787341LA	Supplementary Test Software for AT&T
MX787341LA-001	R1 Supplementary RF Test Cases
MX787341LA-002	R1 Supplementary Performance Test Cases
MX787341LA-003	R61 RRM Test Cases1
MX787341LA-004	R64 CA TRX Test Cases1
MX787341LA-005	R61 CA RRM Test Cases1
MX787341LA-006	R64 3CA RF Test Cases1
MX787341LA-007	R61 3CA RRM Test Cases1
MX787341LA-008	R64 3CA RF Test Cases2
MX787341LA-009	R61 RRM Test Cases2
MX787341LA-010	R61 CA RRM Test Cases2
MX787341LA-011	R61 3CA RRM Test Cases2
MX787341LA-013	R64 4CA RF Test Cases
MX787341LA-014	R1 RF Test Cases with 4Rx
MX787341LA-015	R61 RRM Test Cases3
MX787341LA-016	R61 CA RRM Test Cases3
MX787341LA-017	R61 3CA RRM Test Cases3
MX787341LA-018	R1 Supplementary RF Test Cases2
MX787343LA	Supplementary Test Software for T-Mobile
MX787343LA-001	RF Supplementary Test Cases1
MX787343LA-002	RF CA Supplementary Test Cases1
MX787343LA-003	RF Supplementary Test Cases2
MX787343LA-004	RF Supplementary Test Cases3
MX787343LA-005	RF Supplementary Test Cases4
MX787350LA	R&TTE Test Software
MX787350LA-002	LTE Test Cases
MX787350LA-003	LTE TDD Test Cases
MX787350LA-004	LTE 2CA Test Cases
MX787350LA-005	LTE TDD 2CA Test Cases
MX787350LA-006	LTE Multi-Cluster Test Cases
MX787350LA-007	LTE TDD Multi-Cluster Test Cases
MX787351LA	TRCC Test Software
MX787351LA-001	W-CDMA Test Cases
MX787300LA	Platform Functionality
MX787300LA-001	Band 1 Capability
MX787300LA-002	Band 2 Capability
MX787300LA-003	Band 3 Capability
MX787300LA-004	Band 4 Capability
MX787300LA-005	Band 5 Capability
MX787300LA-006	Band 6 Capability
MX787300LA-007	Band 7 Capability
MX787300LA-008	Band 8 Capability
MX787300LA-009	Band 9 Capability
MX787300LA-010	Band 10 Capability
MX787300LA-011	Band 11 Capability
MX787300LA-012	Band 12 Capability
MX787300LA-013	Band 13 Capability
MX787300LA-014	Band 14 Capability
MX787300LA-017	Band 17 Capability
MX787300LA-018	Band 18 Capability
MX787300LA-019	Band 19 Capability
MX787300LA-020	Band 20 Capability
MX787300LA-021	Band 21 Capability
MX787300LA-024	Band 24 Capability
MX787300LA-025	Band 25 Capability
MX787300LA-026	Band 26 Capability
MX787300LA-027	Band 27 Capability
MX787300LA-028	Band 28 Capability
MX787300LA-029	Band 29 Capability
MX787300LA-030	Band 30 Capability
MX787300LA-031	Band 31 Capability
MX787300LA-032	Band 32 Capability
MX787300LA-033	Band 33 Capability
MX787300LA-034	Band 34 Capability
MX787300LA-035	Band 35 Capability
MX787300LA-036	Band 36 Capability
MX787300LA-037	Band 37 Capability
MX787300LA-038	Band 38 Capability
MX787300LA-039	Band 39 Capability
MX787300LA-040	Band 40 Capability
MX787300LA-041	Band 41 Capability
MX787300LA-042	Band 42 Capability
MX787300LA-046	Band 46 Capability
MX787300LA-048	Band 48 Capability
MX787300LA-066	Band 66 Capability
MX787300LA-071	Band 71 Capability

MD8475A with CDMA2000 option is not RoHS compliant.
Contact your Anritsu sales representative for details.

In addition to the above-described accessories, the following items are required to use the ME7873LA.

DC Power Supply

One of the following models is required when controlling the power supply using the ME7873LA.

Model	Name	pcs	Manufacturer
N6700C	Main frame	1	Keysight Technologies Inc.
N6732B	8 V, 6.25 A, 50 W DC Power Module*1	4	
N6709C	Low-Profile MPS Mainframe Rack Mount Kit	1	
2306-PJ	Dual-Channel Battery/ Charger Simulator with 500 mA Range	2*2	Keithley Instruments Inc.

- *1: Up to four modules are required according to connected mobiles.
Filler Panel Kit N6708A is required if the number of DC power modules are less than four.
At rack mounting, the maximum current is 2 A. To draw more than 2 A of current, use a separate cable to supply DC to the terminal. However, since this will prevent rack mounting, decide on the installation location for the DC power supply in advance.
When using other DC power module, ask the power supply manufacturer for details.
- *2: Two sets of the 2306-PJ are required when testing up to four mobiles continuously.

Temperature Chamber

One of the following equipments is required to control the temperature chamber from the ME7873LA.

Model	Name	Manufacturer
SH-241*1	Temperature & Humidity Chamber	ESPEC Corp.
SH-242*1		
VT4002*2	EMC Shielding with Temperature 105*1 107*1	Votsch Industrietechnik GmbH TestEquity LLC
105*1		
107*1		
115*1	Temperature Chamber	

*1: GPIB Cable (Double-Shield, 2 m) is required to control this chamber automatically.

*2: USB-RS232C Converter Cable (2 m) is required to control this chamber automatically.

Contact your Anritsu sales representative for details.



Specifications are subject to change without notice.

• United States

Anritsu Americas Sales Company

450 Century Parkway, Suite 190, Allen,
TX 75013, U.S.A.
Phone: +1-800-Anritsu (1-800-267-4878)

• Canada

Anritsu Electronics Ltd.

700 Silver Seven Road, Suite 120, Kanata,
Ontario K2V 1C3, Canada
Phone: +1-613-591-2003
Fax: +1-613-591-1006

• Brazil

Anritsu Eletronica Ltda.

Praca Amadeu Amaral, 27 - 1 Andar
01327-010 - Bela Vista - Sao Paulo - SP
Brazil
Phone: +55-11-3283-2511
Fax: +55-11-3288-6940

• Mexico

Anritsu Company, S.A. de C.V.

Bvd Miguel de Cervantes Saavedra #169 Piso 1, Col. Granada
Mexico, Ciudad de Mexico, 11520, MEXICO
Phone: +52-55-4169-7104

• United Kingdom

Anritsu EMEA Ltd.

200 Capability Green, Luton, Bedfordshire, LU1 3LU, U.K.
Phone: +44-1582-433200
Fax: +44-1582-73103

• France

Anritsu S.A.

12 avenue du Québec, Bâtiment Iris 1- Silic 612,
91140 VILLEBON SUR YVETTE, France
Phone: +33-1-60-92-15-50
Fax: +33-1-64-46-10-65

• Germany

Anritsu GmbH

Nemetschek Haus, Konrad-Zuse-Platz 1
81829 München, Germany
Phone: +49-89-442308-0
Fax: +49-89-442308-55

• Italy

Anritsu S.r.l.

Via Elio Vittorini 129, 00144 Roma, Italy
Phone: +39-6-509-9711
Fax: +39-6-502-2425

• Sweden

Anritsu AB

Isafjordsgatan 32C, 164 40 KISTA, Sweden
Phone: +46-8-534-707-00

• Finland

Anritsu AB

Teknibulevardi 3-5, FI-01530 VANTAA, Finland
Phone: +358-20-741-8100
Fax: +358-20-741-8111

• Denmark

Anritsu A/S

Torveporten 2, 2500 Valby, Denmark
Phone: +45-7211-2200
Fax: +45-7211-2210

• Russia

Anritsu EMEA Ltd.

Representation Office in Russia

Tverskaya str. 16/2, bld. 1, 7th floor.
Moscow, 125009, Russia
Phone: +7-495-363-1694
Fax: +7-495-935-8962

• Spain

Anritsu EMEA Ltd.

Representation Office in Spain

Edificio Cuzco IV, Po. de la Castellana, 141, Pta. 5
28046, Madrid, Spain
Phone: +34-915-726-761
Fax: +34-915-726-621

• United Arab Emirates

Anritsu EMEA Ltd.

Dubai Liaison Office

902, Aurora Tower,
P O Box: 500311 - Dubai Internet City
Dubai, United Arab Emirates
Phone: +971-4-3758479
Fax: +971-4-4249036

• India

Anritsu India Private Limited

6th Floor, IndiQube ETA, No.38/4, Adjacent to EMC2,
Doddanekundi, Outer Ring Road, Bengaluru - 560048, India
Phone: +91-80-6728-1300
Fax: +91-80-6728-1301

• Singapore

Anritsu Pte. Ltd.

11 Chang Charn Road, #04-01, Shiro House
Singapore 159640
Phone: +65-6282-2400
Fax: +65-6282-2533

• P.R. China (Shanghai)

Anritsu (China) Co., Ltd.

Room 2701-2705, Tower A,
New Caohejing International Business Center
No. 391 Gui Ping Road Shanghai, 200233, P.R. China
Phone: +86-21-6237-0898
Fax: +86-21-6237-0899

• P.R. China (Hong Kong)

Anritsu Company Ltd.

Unit 1006-7, 10/F, Greenfield Tower, Concordia Plaza,
No. 1 Science Museum Road, Tsim Sha Tsui East,
Kowloon, Hong Kong, P.R. China
Phone: +852-2301-4980
Fax: +852-2301-3545

• Japan

Anritsu Corporation

8-5, Tamura-cho, Atsugi-shi, Kanagawa, 243-0016 Japan
Phone: +81-46-296-6509
Fax: +81-46-225-8352

• Korea

Anritsu Corporation, Ltd.

5FL, 235 Pangyoek-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13494 Korea
Phone: +82-31-696-7750
Fax: +82-31-696-7751

• Australia

Anritsu Pty. Ltd.

Unit 20, 21-35 Ricketts Road,
Mount Waverley, Victoria 3149, Australia
Phone: +61-3-9558-8177
Fax: +61-3-9558-8255

• Taiwan

Anritsu Company Inc.

7F, No. 316, Sec. 1, Neihu Rd., Taipei 114, Taiwan
Phone: +886-2-8751-1816
Fax: +886-2-8751-1817