MU887001A
TRX Test Module
Operation Manual

Seventh Edition

- **For safety and warning information, please read this manual before attempting to use the equipment.**
- **Additional safety and warning information is provided within the MT8870A Universal Wireless Test Set Operation Manual. Please also refer to this document before using the equipment.**
- **Keep this manual with the equipment.**

ANRITSU CORPORATION

Document No.: M-W3720AE-7.0

MU887001A
TRX Test Module
Operation Manual

31 July 2014 (First Edition)
19 January 2018 (Seventh Edition)

CE Conformity Marking

Anritsu affixes the CE conformity marking on the following product(s) in accordance with the Decision 768/2008/EC to indicate that they conform to the EMC, LVD, and RoHS directive of the European Union (EU).

CE marking

1. Product Model

Model: MU887001A TRX Test Module

2. Applied Directive and Standards

When the MU887001A TRX Test Module is installed in the MT8870A, the applied directive and standards of this unit conform to those of the MT8870A main frame.

PS: About main frame

Please contact Anritsu for the latest information on the main frame types that MU887001A can be used with.

If the third digit of the serial number is “6”, the product complies with RoHS.

Serial number example

RCM Conformity Marking

Anritsu affixes the RCM mark on the following product(s) in accordance with the regulation to indicate that they conform to the EMC framework of Australia/New Zealand.

RCM marking

1. Product Model

Model: MU887001A TRX Test Module

2. Applied Directive and Standards

When the MU887001A TRX Test Module is installed in the MT8870A, the applied directive and standards of this unit conform to those of the MT8870A main frame.

PS: About main frame
Please contact Anritsu for the latest information on the main frame types that MU887001A can be used with.

Chapter 1 Replacement and Deletion of Items

The MU887001A is a module with some functions and performances modifications over the MU887000A. This document describes the changes in the functions and performances present in the MU887001A.

For other functions and performances, refer to the *MU887000A TRX Test Module Operation Manual* (M-W3606AE).

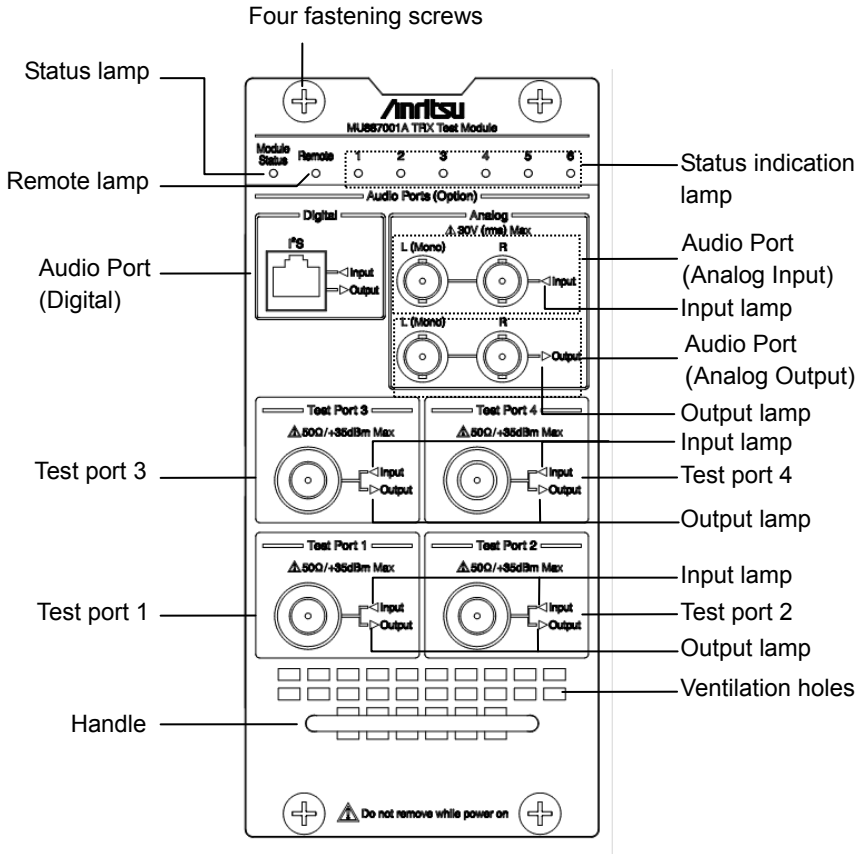
Changes in the specifications of the application software and waveform file are also described in this document. For models, input/output settings of test ports, RF output level setting ranges and RF input level setting ranges, similar replacements of the items as for the MU887000A manual are applied, unless otherwise described.

For other items, refer to respective operation manuals.

1.1 Items To Be Replaced Or Deleted for MU887000A

The following table shows the items in the *MU887000A TRX Test Module Operation Manual* (M-W3606AE) that need to be replaced or deleted.

Items in MU887000A Manual to be Replaced or Deleted (1/9)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>-----</td><td>All</td><td>Before: MU887000A</td></tr>
<tr><td></td><td></td><td>After: MU887001A</td></tr>
<tr><td>2.1</td><td>2-2</td><td>Before: Figure 2.1-1 Front Panel Part Names</td></tr>
<tr><td></td><td></td><td>After: The figure below shows the appearance of the MU887001A's front panel, and the name of each part.
 
</td></tr>
<tr><td>2.1</td><td>2-3</td><td>Table 2.1-1 Functions of Front-Panel Parts
Test ports 3 and 4</td></tr>
<tr><td></td><td></td><td>Before: Connectors for high-frequency signals.
Either of simultaneous signal input and output supported</td></tr>
<tr><td></td><td></td><td>After: Connectors for high-frequency signals.
Both simultaneous signal input and output supported.</td></tr>
<tr><td>3.5.4</td><td>3-20</td><td>Before: Simultaneous signal input and output can be specified for test ports 1 and 2.
Signal input or output can be specified for test ports 3 and 4.</td></tr>
<tr><td></td><td></td><td>After: Simultaneous signal input and output can be specified for test ports 1, 2, 3 and 4.</td></tr>
</table>

Items in MU887000A manual to be Replaced or Deleted (2/9)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">5.2.1</td><td rowspan="3">5-53</td><td>:ROUTe:PORT:CONNect:DIRection
Details</td></tr>
<tr><td>Before: Test Port1 and Test Port2 can be set for both input and output. Test Port3 and Test Port4 can be set for either input or output.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set for both input and output.</td></tr>
<tr><td rowspan="3">5.2.2</td><td rowspan="3">5-190</td><td>:SOURce:GPRF:GENerator:RFSettings:LEVel
Range</td></tr>
<tr><td>Before:
<table>
<tr><th>RF frequency f (MHz)</th><th>Port</th><th>Range</th></tr>
<tr><td rowspan="2">1≤f≤3800</td><td>Port1, Port2</td><td>(–130.0 dBm – CableLoss) to (–10.0 dBm – CableLoss – AWGN_RF_Adjust_Gain)</td></tr>
<tr><td>Port3, Port4</td><td>(–120.0 dBm – CableLoss) to (0.0 dBm – CableLoss – AWGN_RF_Adjust_Gain)</td></tr>
<tr><td rowspan="2">3800<f≤6000</td><td>Port1, Port2</td><td>(–130.0 dBm – CableLoss) to (–18.0 dBm – CableLoss – AWGN_RF_Adjust_Gain)</td></tr>
<tr><td>Port3, Port4</td><td>(–120.0 dBm – CableLoss) to (–8.0 dBm – CableLoss – AWGN_RF_Adjust_Gain)</td></tr>
</table></td></tr>
<tr><td>After:
<table>
<tr><th>RF frequency f (MHz)</th><th>Port</th><th>Range</th></tr>
<tr><td>1≤f≤3800</td><td>Port1, Port2, Port3, Port4</td><td>(–130.0 dBm – CableLoss) to (–10.0 dBm – CableLoss – AWGN_RF_Adjust_Gain)</td></tr>
<tr><td>3800<f≤6000</td><td>Port1, Port2, Port3, Port4</td><td>(–130.0 dBm – CableLoss) to (–18.0 dBm – CableLoss – AWGN_RF_Adjust_Gain)</td></tr>
</table></td></tr>
<tr><td rowspan="3">6.2.2</td><td rowspan="3">6-106</td><td>PORT
Details</td></tr>
<tr><td>Before: Test Port1 and Test Port2 can be set for both input and output. Test Port3 and Test Port4 can be set for either input or output.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set for both input and output.</td></tr>
</table>

Items in MU887000A Manual to be Replaced or Deleted (3/9)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">7.3.1</td><td rowspan="3">7-5</td><td>VSWR (1) Test target specification
Port3, Port4</td></tr>
<tr><td>Before:
<table>
<tr><th>Frequency f</th><th>Specifications</th></tr>
<tr><td>10 MHz≤f<30 MHz</td><td><1.8</td></tr>
<tr><td>30 MHz≤f≤3800 MHz</td><td><1.5</td></tr>
<tr><td>3800 MHz<f≤6000 MHz</td><td><1.6</td></tr>
</table></td></tr>
<tr><td>After:
<table>
<tr><th>Frequency f</th><th>Specifications</th></tr>
<tr><td>10 MHz≤f< 400 MHz</td><td><1.5</td></tr>
<tr><td>400 MHz≤f≤2700 MHz</td><td><1.2</td></tr>
<tr><td>2700 MHz<f≤3800 MHz</td><td><1.3</td></tr>
<tr><td>3800 MHz<f≤6000 MHz</td><td><1.5</td></tr>
</table></td></tr>
<tr><td rowspan="3">7.3.1</td><td rowspan="3">7-7</td><td>VSWR (4) Procedure
Port1</td></tr>
<tr><td>Before: When testing the Port2, read “Port1” in the procedure of Port1 measurement as “Port2”.</td></tr>
<tr><td>After: When testing the Port2, 3 or 4, read “Port1” in the procedure of Port1 measurement as “Port2, 3 or 4”.</td></tr>
<tr><td rowspan="3">7.3.1</td><td rowspan="3">7-8</td><td>VSWR (4) Procedure
Port3</td></tr>
<tr><td>Before: Port3</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">7.3.2</td><td rowspan="3">7-9</td><td>SG Level Accuracy (1) Test target specifications
Port3, Port4</td></tr>
<tr><td>Before:
<table>
<tr><th>Frequency f (MHz)</th><th>Specifications</th><th>Remarks</th></tr>
<tr><td>10≤ f <400</td><td>±1.3 dB</td><td>–110≤Output Level</td></tr>
<tr><td>400≤ f ≤3800</td><td>±1.0 dB</td><td>–110≤Output Level</td></tr>
<tr><td>3800< f ≤6000</td><td>±1.3 dB</td><td>–110≤Output Level</td></tr>
</table></td></tr>
<tr><td>After:
<table>
<tr><th>Frequency f (MHz)</th><th>Specifications</th><th>Remarks</th></tr>
<tr><td>10≤ f <400</td><td>±1.3 dB*</td><td>–120≤Output Level</td></tr>
<tr><td>400≤ f ≤3800</td><td>±1.0 dB</td><td>–120≤Output Level</td></tr>
<tr><td>3800< f ≤6000</td><td>±1.3 dB</td><td>–100≤Output Level</td></tr>
</table>
*: Signal analyzer input level: +15 dBm</td></tr>
</table>

Items in MU887000A Manual to be Replaced or Deleted (4/9)

Section	Page	Detail	
7.3.2	7-16	SG Level Accuracy (4) Procedure Port1	
		Before:	When testing the Port2, read “Port1” in the procedure of Port1 measurement as “Port2".
		After:	When testing the Port2, 3 or 4, read “Port1” in the procedure of Port1 measurement as “Port2, 3 or 4”.
7.3.2	7-17	SG Level Accuracy (4) Procedure Port3	
		Before:	Port3
		After:	(Subject to deletion)
7.3.3	7-21	SG Spurious (4) Procedure Port1	
		Before:	SG Spurious is measured at Port1 and Port3 only.
		After:	SG Spurious is measured at Port1 and Port3 only. When testing the Port3, read “Port1” in the procedure of Port1 measurement as “Port3”.
7.3.3	7-22	SG Spurious (4) Procedure Port3	
		Before:	Port3
		After:	(Subject to deletion)
7.3.4	7-23	SA Level Accuracy (1) Test target specifications	
		Before:	Port1, Port2
		After:	Port1, Port2, Port3, Port4
7.3.4	7-27	SA Level Accuracy (4) Procedure	
		Before:	SA Level Accuracy is measured at Port1 and Port2 only.
		After:	SA Level Accuracy is measured at Port1, 2, 3 and 4.
7.3.4	7-29	SA Level Accuracy (4) Procedure	
		Before:	When testing the Port2, read “Port1” in the procedure of Port1 measurement as “Port2".
		After:	When testing the Port2, 3 or 4, read “Port1” in the procedure of Port1 measurement as “Port2, 3 or 4”.
7.3.5	7-30	SA Linearity (1) Test target specifications	
		Before:	Port1, Port2
		After:	Port1, Port2, Port3, Port4
7.3.5	7-34	SA Linearity (4) Procedure	
		Before:	SA Linearity is measured at Port1 and Port2 only.
		After:	SA Linearity is measured at Port1, 2, 3 and 4.

Items in MU887000A Manual to be Replaced or Deleted (5/9)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">7.3.5</td><td rowspan="3">7-35</td><td>SA Linearity (4) Procedure</td></tr>
<tr><td>Before: When testing the Port2, read “Port1” in the procedure of Port1 measurement as “Port2".</td></tr>
<tr><td>After: When testing the Port2, 3 or 4, read “Port1” in the procedure of Port1 measurement as “Port2, 3 or 4”.</td></tr>
<tr><td rowspan="2">Appendix A</td><td rowspan="2">A-1</td><td>Table A-1 VSWR
Test ports 3 and 4:</td></tr>
<tr><td>Before:
<table>
<tr><th>Frequency (MHz)</th><th>Specifications</th></tr>
<tr><td>10 ≤ f < 30</td><td><1.8</td></tr>
<tr><td>30 ≤ f ≤ 3800</td><td><1.5</td></tr>
<tr><td>3800 < f ≤ 6000</td><td><1.6</td></tr>
</table>
After:
<table>
<tr><th>Frequency (MHz)</th><th>Specifications</th></tr>
<tr><td>10 ≤ f < 400</td><td><1.5</td></tr>
<tr><td>400 ≤ f ≤ 2700</td><td><1.2</td></tr>
<tr><td>2700 < f ≤ 3800</td><td><1.3</td></tr>
<tr><td>3800 < f ≤ 6000</td><td><1.5</td></tr>
</table>
</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Table A-1 Input level max.</td></tr>
<tr><td>Before: Test ports 1 and 2: +35 dBm
Test ports 3 and 4: +25 dBm</td></tr>
<tr><td>After: Test ports 1, 2, 3 and 4: +35 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Table A-2 Amplitude
Level setting range</td></tr>
<tr><td>Before: Test ports 1 and 2:
–130 to –10 dBm (Frequency ≤3800 MHz)
–130 to –18 dBm (Frequency >3800 MHz)
Test ports 3 and 4:
–120 to 0 dBm (Frequency ≤3800 MHz)
–120 to –8 dBm (Frequency >3800 MHz)</td></tr>
<tr><td>After: Test ports 1, 2, 3 and 4:
–130 to –10 dBm (Frequency ≤3800 MHz)
–130 to –18 dBm (Frequency >3800 MHz)</td></tr>
</table>

Items in MU887000A Manual to be Replaced or Deleted (6/9)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Table A-2 Amplitude
Level accuracy*1</td></tr>
<tr><td>Before:
<table>
<tr><th colspan="3">Frequency (MHz)</th><th>Test ports 1 and 2*2</th><th>Test ports 3 and 4*3</th></tr>
<tr><td>10≤</td><td>f</td><td><400</td><td>±1.3 dB*4</td><td>±1.3 dB</td></tr>
<tr><td>400≤</td><td>f</td><td>≤3800</td><td>±1.0 dB, ±0.7 dB*5</td><td>±1.0 dB, ±0.7 dB*5</td></tr>
<tr><td>3800<</td><td>f</td><td>≤6000*6</td><td>±1.3 dB, ±1.0 dB*5</td><td>±1.3 dB, ±0.7 dB*5</td></tr>
</table></td></tr>
<tr><td>After:
<table>
<tr><th colspan="3">Frequency (MHz)</th><th>Test ports 1, 2, 3 and 4*2</th></tr>
<tr><td>10≤</td><td>f</td><td><400</td><td>±1.3 dB*4</td></tr>
<tr><td>400≤</td><td>f</td><td>≤3800</td><td>±1.0 dB, ±0.7 dB*5</td></tr>
<tr><td>3800<</td><td>f</td><td>≤6000*6</td><td>±1.3 dB, ±1.0 dB*5</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-3</td><td>Table A-3 Amplitude
Level setting range *2</td></tr>
<tr><td>Before:
<table>
<tr><th colspan="3">Frequency (MHz)</th><th>Test ports 1 and 2</th><th>Test ports 3 and 4</th></tr>
<tr><td>10≤</td><td>f</td><td><350</td><td>–65 to +15 dBm</td><td>–65 to +15 dBm</td></tr>
<tr><td>350≤</td><td>f</td><td>≤3800</td><td>–65 to +35 dBm</td><td>–65 to +25 dBm</td></tr>
<tr><td>3800<</td><td>f</td><td>≤6000*1</td><td>–65 to +35 dBm</td><td>–65 to +25 dBm</td></tr>
</table></td></tr>
<tr><td>After:
<table>
<tr><th colspan="3">Frequency (MHz)</th><th>Test ports 1, 2, 3 and 4</th></tr>
<tr><td>10≤</td><td>f</td><td><350</td><td>–65 to +15 dBm</td></tr>
<tr><td>350≤</td><td>f</td><td>≤3800</td><td>–65 to +35 dBm</td></tr>
<tr><td>3800<</td><td>f</td><td>≤6000 *1</td><td>–65 to +35 dBm</td></tr>
</table></td></tr>
</table>

Items in MU887000A Manual to be Replaced or Deleted (7/9)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-3</td><td>Table A-3 Amplitude
Level accuracy *3
Test ports 3 and 4:</td></tr>
<tr><td>Before:
<table>
<tr><th>Frequency (MHz) / Level (dBm)</th><th>10≤f<400</th><th>400≤f≤3800</th><th>3800<f≤6000*1</th></tr>
<tr><td>–30 ≤level≤+25</td><td>–</td><td>±0.7 dB</td><td>±0.7 dB*5</td></tr>
<tr><td>–30 ≤level≤+15</td><td>±0.7 dB</td><td>–</td><td>–</td></tr>
<tr><td>–55 ≤level <–30</td><td>±0.9 dB</td><td>±0.9 dB</td><td>±0.9 dB*5</td></tr>
<tr><td>–65 ≤level <–55</td><td>±1.1 dB</td><td>±1.1 dB</td><td>±1.1 dB*5</td></tr>
</table></td></tr>
<tr><td>After:
<table>
<tr><th>Frequency (MHz) / Level (dBm)</th><th>10≤f<400</th><th>400≤f≤3800</th><th>3800<f≤6000*1</th></tr>
<tr><td>–30 ≤level≤+35</td><td>–</td><td>±0.3 dB*4
±0.5 dB</td><td>±0.7 dB*5</td></tr>
<tr><td>–30 ≤level≤+15</td><td>±0.7 dB</td><td>–</td><td>–</td></tr>
<tr><td>–55 ≤level <–30</td><td>±0.9 dB</td><td>±0.7 dB</td><td>±0.9 dB*5</td></tr>
<tr><td>–65 ≤level <–55</td><td>±1.1 dB</td><td>±0.9 dB</td><td>±1.1 dB*5</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-4</td><td>Table A-3 Amplitude
Level linearity *6</td></tr>
<tr><td>Before:
<table>
<tr><th>Input level</th><th>Test ports 1 and 2</th><th>Test ports 3 and 4</th></tr>
<tr><td>≥–55 dBm</td><td>±0.2 dB</td><td>±0.2 dB</td></tr>
<tr><td>≥–65 dBm</td><td>±0.4 dB</td><td>±0.4 dB</td></tr>
</table></td></tr>
<tr><td>After:
<table>
<tr><th>Input level</th><th>Test ports 1, 2, 3 and 4</th></tr>
<tr><td>≥–55 dBm</td><td>±0.2 dB</td></tr>
<tr><td>≥–65 dBm</td><td>±0.4 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix C.2</td><td rowspan="3">C-3</td><td>VSWR</td></tr>
<tr><td>Before: Performance test result sheets of VSWR are common to Port1 and Port2, Port3 and Port4.</td></tr>
<tr><td>After: The result sheet for VSWR performance test is common to all the ports (Port1, Port2, Port3 and Port4).</td></tr>
</table>

Items in MU887000A Manual to be Replaced or Deleted (8/9)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix C.2</td><td rowspan="3">C-3</td><td>Table C.2-1 Measurement condition and the table number of result sheet</td></tr>
<tr><td>Before:
<table>
<tr><th>Measurement condition</th><th>Table number</th></tr>
<tr><td>Port1</td><td>Table C.2-2</td></tr>
<tr><td>Port2</td><td>Table C.2-2</td></tr>
<tr><td>Port3 (Output port setting)</td><td>Table C.2-3</td></tr>
<tr><td>Port3 (Input port setting)</td><td>Table C.2-3</td></tr>
<tr><td>Port4 (Output port setting)</td><td>Table C.2-3</td></tr>
<tr><td>Port4 (Input port setting)</td><td>Table C.2-3</td></tr>
</table></td></tr>
<tr><td>After:
<table>
<tr><th>Measurement condition</th><th>Table number</th></tr>
<tr><td>Port1</td><td>Table C.2-2</td></tr>
<tr><td>Port2</td><td>Table C.2-2</td></tr>
<tr><td>Port3</td><td>Table C.2-2</td></tr>
<tr><td>Port4</td><td>Table C.2-2</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix C.2</td><td rowspan="3">C-3</td><td>Table C.2-2</td></tr>
<tr><td>Before: VSWR (Port1, Port2)</td></tr>
<tr><td>After: VSWR (Port1, Port2, Port3, Port4)</td></tr>
<tr><td rowspan="3">Appendix C.2</td><td rowspan="3">C-3</td><td>Table C.2-2 Test port:</td></tr>
<tr><td>Before: Port 1 2</td></tr>
<tr><td>After: Port 1 2 3 4</td></tr>
<tr><td rowspan="3">Appendix C.2</td><td rowspan="3">C-3</td><td>Table C.2-3</td></tr>
<tr><td>Before: VSWR (Port3, Port4)</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">Appendix C.3</td><td rowspan="3">C-4</td><td>SG Level Accuracy</td></tr>
<tr><td>Before: Performance test result sheets of SG Level Accuracy are common to Port1 and Port2, Port3 and Port4.</td></tr>
<tr><td>After: The result sheet for SG level accuracy test is common to all the ports (Port1, Port2, Port3 and Port4).</td></tr>
<tr><td rowspan="3">Appendix C.3</td><td rowspan="3">C-4</td><td>Table C.3-1</td></tr>
<tr><td>Before: Table numbers of result sheets for Port3 and Port4 tests
Table C.3-5, Table C.3-6, Table C.3-7</td></tr>
<tr><td>After: Table numbers of result sheets for Port3 and Port4 tests
Table C.3-5 → Table C.3-2, Table C.3-6 → Table C.3-3,
Table C.3-7 → Table C.3-4</td></tr>
</table>

Items in MU887000A Manual to be Replaced or Deleted (9/9)

Section	Page	Detail
Appendix C.3	C-5	Table C.3-2 SG Level Accuracy Test port: Before: Port 1 2 After: Port 1 2 3 4
Appendix C.3	C-7	Table C.3-3 SG Level Accuracy Test port: Before: Port 1 2 After: Port 1 2 3 4
Appendix C.3	C-9	Table C.3-4 SG Level Accuracy Test port: Before: Port 1 2 After: Port 1 2 3 4
Appendix C.3	C-11 to C-16	Table C.3-5, 6, 7 SG Level Accuracy Test port: Before: Port 3 4 After: (Subject to deletion)
Appendix C.4	C-17	SG Spurious Before: The value to write in column of "Output Level" is 0 for Port1, –10 for Port3. After: Fill in 0 in the **Output Level** column of the result sheet of each Port1 and Port3.
Appendix C.5	C-19	SA Level Accuracy Before: Performance test result sheets of SA Level Accuracy are common to Port1 and Port2. After: The result sheet for SA level accuracy test is common to all the ports (Port1, Port2, Port3 and Port4).
Appendix C.5	C-19	Table C.5-1 Before: Port1 After: Common to Port1, Port2, Port3 and Port4
Appendix C.5	C-20	Table C.5-2 SA Level Accuracy Test port: Before: Port 1 2 After: Port 1 2 3 4
Appendix C.6	C-21	SA Linearity Before: Performance test result sheets of SA Linearity are common to Port1 and Port2. After: The result sheet for SA linearity test is common to all the ports (Port1, Port2, Port3 and Port4).
Appendix C.6	C-21	Table C.6-1 Before: Port1 and Port2 After: Common to Port1, Port2, Port3 and Port4
Appendix C.6	C-22	Table C.6-2, 3 SA Linearity Test port: Before: Port 1 2 After: Port 1 2 3 4

1.2 Items To Be Replaced for MX880051A

The following table shows the items in the *MX880051A Cellular Application Applet Operation Manual* (M-W3613AE) that need to be replaced.

Items in MX880051A Manual to be Replaced

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
3.1.2	3-2	Table 3.1.2-1 Measurement Settings Pane Buttons
		Before: *: Either Port3 or Port4 can be set.
		After: *: All of Port1, Port2, Port3 and Port4 can be set to any or both of them.

1.3 Items To Be Replaced for MX880054A

The following table shows the items in the *MX880054A Signal Generator Application Applet Operation Manual* (M-W3619AE) that need to be replaced.

Items in MX880054A Manual to be Replaced

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
3.1.2	3-2	Table 3.1.2-1 Measurement Settings Pane Buttons
		Before: *: Either Port3 or Port4 can be set.
		After: *: All of Port1, Port2, Port3 and Port4 can be set to any or both of them.

1.4 Items To Be Replaced for MX880055A

The following table shows the items in the *MX880055A Small Cell Application Applet Operation Manual* (M-W3706AE) that need to be replaced.

Items in MX880055A Manual to be Replaced

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
3.1.2	3-2	Table 3.1.2-1 Measurement Settings Pane Buttons
		Before: *: Either Port3 or Port4 can be set.
		After: *: All of Port1, Port2, Port3 and Port4 can be set to any or both of them.

1.5 Items To Be Replaced for MX880056A

The following table shows the items in the *MX880056A IEEE 802.15.4 Application Applet Operation Manual* (M-W3746AE) that need to be replaced.

Items in MX880056A Manual to be Replaced

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
3.1.2	3-3	Table 3.1.2-1 Measurement Settings Pane Buttons
		Before: *: Either Port3 or Port4 can be set.
		After: *: All of Port1, Port2, Port3 and Port4 can be set to any or both of them.

1.6 Items To Be Replaced for MX880057A

The following table shows the items in the *MX880057A Z-Wave Application Applet Operation Manual* (M-W3791AE) that need to be replaced.

Items in MX880057A Manual to be Replaced

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
3.1.2	3-3	Table 3.1.2-1 Measurement Settings Pane Buttons
		Before: *: Either Port3 or Port4 can be set.
		After: *: All of Port1, Port2, Port3 and Port4 can be set to any or both of them.

1.7 Items To Be Replaced Or Deleted for MX887010A

The following table shows the items in the *MX887010A Cellular Standards Sequence Measurement Operation Manual* (M-W3607AE) that need to be replaced or deleted.

Items in MX887010A Manual to be Replaced or Deleted (1/5)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="2">-----</td><td rowspan="2">All</td><td>Before: MU887000A</td></tr>
<tr><td>After: MU887001A</td></tr>
<tr><td rowspan="3">2.4.1</td><td rowspan="3">2-30</td><td>Setting measurement conditions
Output level</td></tr>
<tr><td>Before: The setting range is different for Test port1/2 and Test port3/4 of the MU887000A (Test port1/2: –130 to –10 dBm, Test port3/4: –120 to 0 dBm).</td></tr>
<tr><td>After: The setting range for Port1, Port2, Port3 and Port4 of MU887001A is from –130 to –10 dBm.</td></tr>
<tr><td rowspan="8">3.2.1</td><td rowspan="8">3-6</td><td>Sequence table setting items
Input level:</td></tr>
<tr><td>Before: –65.0 to +35.0 dBm (Test report 1, 2)
–65.0 to +25.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Test report 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items
Output level:</td></tr>
<tr><td>Before: –130.0 to –10.0 dBm (Test report 1, 2)
–120.0 to 0.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Test report 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items
Output port</td></tr>
<tr><td>Before: When selecting Port 3 or 4, make sure the port number is not the same as the input port.</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">3.2.3</td><td rowspan="3">3-11</td><td>Table 3.2.3-2 Error Cause</td></tr>
<tr><td>Before:
<table>
<tr><th>Parameter</th><th>Cause</th></tr>
<tr><td>Port</td><td>Port 3 is set for both input port and output port. Or Port 4 is set for both input port and output port.</td></tr>
</table>
</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">4.2.1</td><td rowspan="3">4-38</td><td>:ROUTe:PORT:CONNect:DIRection
Details</td></tr>
<tr><td>Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.</td></tr>
</table>

Items in MX887010A Manual to be Replaced or Deleted (2/5)

Section	Page	Detail
4.2.2	4-49	:CONFigure:CELLular:COMMon:MULTipower:TXRef Parameter <ref(i)> Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
4.2.2	4-87	:CONFigure:CELLular:COMMon:TRXFrequency:RXLevel Parameter <p(n)> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.2	4-89	:CONFigure:CELLular:COMMon:TRXFrequency:RXLevel2 Parameter <p(n)> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.2	4-94	:CONFigure:CELLular:COMMon:TRXFrequency:TXRef Parameter <ref(i)> Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
4.2.2	4-97	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.2	4-99	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-124	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)

Items in MX887010A Manual to be Replaced or Deleted (3/5)

Section	Page	Detail
4.2.3	4-126	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-132	:CONFigure:CELLular:SEQuence:RFSettings:TRX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-134	:CONFigure:CELLular:SEQuence:RFSettings:TX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-135	:CONFigure:CELLular:SEQuence:RXPort Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)
4.2.3	4-140	:CONFigure:CELLular:SEQuence:TXPower:OLPattern0 Parameter <level(0)> to <level(99)> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-142	:CONFigure:CELLular:SEQuence:TXPower:OLPattern1 Parameter <level(50)> to <level(99)> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)

Items in MX887010A Manual to be Replaced or Deleted (4/5)

Section	Page	Detail
5.2.1	5-30	PORT Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.
5.2.2	5-36	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
5.2.2	5-53	MPMEAS_TXREF Parameter ref(i) Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
5.2.2	5-59	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.2	5-61	REGMRXPWR Parameter p(n) Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.2	5-62	REGMRXPWR2 Parameter p(n) Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.2	5-64	REGMTXREF Parameter ref(i) Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)

Items in MX887010A Manual to be Replaced or Deleted (5/5)

Section	Page	Detail
5.2.3	5-115	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-117	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-130	SEQSGPORT Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)
5.2.3	5-134	SEQTRX Parameter ref Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter level Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-136	SEQTX Parameter ref Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-142	TXPWR_OPAT0 Parameter level0 to level99 Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-144	TXPWR_OPAT1 Parameter <level50> to <level99> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)

1.8 Items To Be Replaced Or Deleted for MX887011A

The following table shows the items in the *MX887011A W-CDMA/HSPA Uplink TX Measurement Operation Manual* (M-W3608AE) that need to be replaced or deleted.

Items in MX887011A Manual to be Replaced or Deleted (1/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="2">-----</td><td rowspan="2">All</td><td>Before: MU887000A</td></tr>
<tr><td>After: MU887001A</td></tr>
<tr><td rowspan="10">3.2.1</td><td rowspan="10">3-6</td><td>Sequence table setting items Input level:</td></tr>
<tr><td>Before: –65.0 to +35.0 dBm (Test Port 1, 2)
–65.0 to +25.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output level:</td></tr>
<tr><td>Before: –130.0 to –10.0 dBm (Test Port 1, 2)
–120.0 to 0.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output port</td></tr>
<tr><td>Before: When selecting Port 3 or 4, make sure the port number is not the same as the input port.</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">3.2.3</td><td rowspan="3">3-10</td><td>Table 3.2.3-1 Error Cause</td></tr>
<tr><td>Before:
<table>
<tr><th>Parameters</th><th>Parameters</th></tr>
<tr><td>Port</td><td>Port 3 is set for both input port and output port.
Or Port 4 is set for both input port and output port.</td></tr>
</table>
</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">4.2.1</td><td rowspan="3">4-37</td><td>:ROUTe:PORT:CONNect:DIRection
Details</td></tr>
<tr><td>Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously.
Test Port3 and Test Port4 can be set to either input or output at one time.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.</td></tr>
</table>

Items in MX887011A Manual to be Replaced or Deleted (2/8)

Section	Page	Detail
4.2.2	4-42	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.2	4-45	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-132	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.3	4-134	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887011A Manual to be Replaced or Deleted (3/8)

Section	Page	Detail
4.2.3	4-139	:CONFigure:CELLular:SEQuence:RFSettings:TRX Parameters <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameters <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-141	:CONFigure:CELLular:SEQuence:RFSettings:TX Parameters <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-143	:CONFigure:CELLular:SEQuence:RXPort Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)
5.2.1	5-28	PORT Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.

Items in MX887011A Manual to be Replaced or Deleted (4/8)

Section	Page	Detail
5.2.2	5-84	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.2	5-94	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
5.2.3	5-127	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.3	5-128	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.

Items in MX887011A Manual to be Replaced or Deleted (5/8)

Section	Page	Detail
5.2.3	5-141	SEQSGPORT Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)
5.2.3	5-145	SEQTRX Parameter ref Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-147	SEQTX Parameter ref Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
6.3.4	6-9	Output EVM (4) Procedure 4 Test Port3
		Before: Output Level: –0.9 dBm Input Level: +25 dBm
		After: Output Level: –10.9 dBm Input Level: +35 dBm

Items in MX887011A Manual to be Replaced or Deleted (6/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">6.3.5</td><td rowspan="3">6-11</td><td>Tx Power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–25 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–65 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–25 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–65 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td rowspan="3">6.3.7</td><td rowspan="3">6-15</td><td>Frequency/Modulation measurement (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input level: –30 dBm ≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input level: –30 dBm ≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">6.3.8</td><td rowspan="3">6-17</td><td>Adjacent Channel Leakage Power Ratio (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input level range: –10 dBm ≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input level range: –10 dBm ≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">6.3.10</td><td rowspan="3">6-24</td><td>Output EVM Output EVM</td></tr>
<tr><td>Before: EVM (%) Test Port3
MU887000A Output Level: –0.9 dBm</td></tr>
<tr><td>After: EVM (%) Test Port3
MU887001A Output Level: –10.9 dBm</td></tr>
<tr><td rowspan="3">6.3.10</td><td rowspan="3">6-27</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level: –10 dBm
Measurement Accuracy (dB)
Lo Limit: –0.7 Hi Limit: +0.7
Measurement uncertainty: ±0.17</td></tr>
<tr><td>After: MU887001A Input Level: –10 dBm
Measurement Accuracy (dB)
Lo Limit: –0.5 Hi Limit: +0.5
Measurement uncertainty: ±0.15</td></tr>
</table>

Items in MX887011A Manual to be Replaced or Deleted (7/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">6.3.10</td><td rowspan="3">6-27</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level: –55 dBm
Measurement Accuracy (dB)
Lo Limit: –0.9 Hi Limit: +0.9
Measurement uncertainty: ±0.14</td></tr>
<tr><td>After: MU887001A Input Level: –55 dBm
Measurement Accuracy (dB)
Lo Limit: –0.7 Hi Limit: +0.7
Measurement uncertainty: ±0.13</td></tr>
<tr><td rowspan="3">6.3.10</td><td rowspan="3">6-28</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level: –65 dBm
Measurement Accuracy (dB)
Lo Limit: –1.1 Hi Limit: +1.1
Measurement uncertainty:± 0.14</td></tr>
<tr><td>After: MU887001A Input Level: –65 dBm
Measurement Accuracy (dB)
Lo Limit: –0.9 Hi Limit: +0.9
Measurement uncertainty:± 0.13</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement Input Level Range</td></tr>
<tr><td>Before: Port1, Port2:-65.0 to +35.0 dBm
Port3, Port4:-65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4:-65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement Measurement Accuracy</td></tr>
<tr><td>Before: Port1, Port2:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table>
Port3, Port4:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
<tr><td>After: Port1 to 4:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table></td></tr>
</table>

Items in MX887011A Manual to be Replaced or Deleted (8/8)

Section	Page	Detail
Appendix A	A-2	Modulation Analysis Input Level Range
		Before: Port1, Port2: –30.0 to +35.0 dBm Port3, Port4: –30.0 to +25.0 dBm
		After: Port1 to 4: –30.0 to +35.0 dBm
Appendix A	A-2	Occupied Bandwidth Input Level Range
		Before: Port1, Port2: –10.0 to +35.0 dBm Port3, Port4: –10.0 to +25.0 dBm
		After: Port1 to 4: –10.0 to +35.0 dBm
Appendix A	A-2	Adjacent Channel Leakage Power Ratio Input Level Range
		Before: Port1, Port2: –10.0 to +35.0 dBm Port3, Port4: –10.0 to +25.0 dBm
		After: Port1 to 4: –10.0 to +35.0 dBm

1.9 Items To Be Replaced Or Deleted for MX887012A

The following table shows the items in the *MX887012A GSM/EDGE Uplink TX Measurement Operation Manual* (M-W3609AE) that need to be replaced or deleted.

Items in MX887012A Manual to be Replaced or Deleted (1/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="2">-----</td><td rowspan="2">All</td><td>Before: MU887000A</td></tr>
<tr><td>After: MU887001A</td></tr>
<tr><td rowspan="10">3.2.1</td><td rowspan="10">3-6</td><td>Sequence table setting items Input level:</td></tr>
<tr><td>Before: –65.0 to +35.0 dBm (Test Port 1, 2)
–65.0 to +25.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output level:</td></tr>
<tr><td>Before: –130.0 to –10.0 dBm (Test Port 1, 2)
–120.0 to 0.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output port</td></tr>
<tr><td>Before: When selecting Port 3 or 4, make sure the port number is not the same as the input port.</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">3.2.3</td><td rowspan="3">3-9</td><td>Table 3.2.3-1 Error Cause</td></tr>
<tr><td>Before:
<table>
<tr><th>Parameter</th><th>Cause</th></tr>
<tr><td>Port</td><td>Port 3 is set for both input port and output port.
Or Port 4 is set for both input port and output port.</td></tr>
</table>
</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">4.2.1</td><td rowspan="3">4-47</td><td>:ROUTe:PORT:CONNect:DIRection
Details</td></tr>
<tr><td>Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously.
Test Port3 and Test Port4 can be set to either input or output at one time.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.</td></tr>
</table>

Items in MX887012A Manual to be Replaced or Deleted (2/8)

Section	Page	Detail
4.2.2	4-52	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.2	4-80 4-81 4-82 4-83	:CONFigure:CELLular:GSM:HSADjustment:RXSWeep:LEVel1 :CONFigure:CELLular:GSM:HSADjustment:RXSWeep:LEVel2 :CONFigure:CELLular:GSM:HSADjustment:RXSWeep:LEVel3 :CONFigure:CELLular:GSM:HSADjustment:RXSWeep:LEVel4 Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the setting range is –135.0 to –15.0 dBm (Port1/Port2).
		After: When the cable loss is 5 dB, the setting range is –135.0 to –15.0 dBm (Port1/Port2/Port3/Port4).
4.2.2	4-84	:CONFigure:CELLular:GSM:HSADjustment:RXSWeep:LLISt Parameter <level(i)> Range
		Before: OFF, –130.0 to –10.0 dBm, (Port1/Port2) OFF, –120.0 to 0.0 dBm, (Port3/Port4)
		After: OFF, –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.2	4-118	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –30.0 to +35.0 dBm (Port 1/Port 2) –30.0 to +25.0 dBm (Port 3/Port 4)
		After: –30.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –25.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –25.0 to +40.0 dBm.

Items in MX887012A Manual to be Replaced or Deleted (3/8)

Section	Page	Detail
4.2.3	4-180	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.3	4-182	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –30.0 to +35.0 dBm (Port 1/Port 2) –30.0 to +25.0 dBm (Port 3/Port 4)
		After: –30.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –25.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –25.0 to +40.0 dBm.
4.2.3	4-201	:CONFigure:CELLular:SEQuence:RFSettings:TRX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-203	:CONFigure:CELLular:SEQuence:RFSettings:TX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887012A Manual to be Replaced or Deleted (4/8)

Section	Page	Detail	
4.2.3	4-204	:CONFigure:CELLular:SEQuence:RXPort Details	
		Before:	PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After:	(Subject to deletion)
5.2.1	5-32	PORT Details	
		Before:	Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After:	Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.
5.2.2	5-58	ILVL Parameter level Range	
		Before:	–30.0 to +35.0 dBm (Port 1/Port 2) –30.0 to +25.0 dBm (Port 3/Port 4)
		After:	–30.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –25.0 to +40.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –25.0 to +40.0 dBm.
5.2.2	5-77	OLVL Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.

Items in MX887012A Manual to be Replaced or Deleted (5/8)

Section	Page	Detail
5.2.2	5-130 5-131 5-132 5-133	REGMRXPCFG1 REGMRXPCFG2 REGMRXPCFG3 REGMRXPCFG4 Parameter level(0) Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the setting range is –135.0 to –15.0 dBm (Port1/Port2).
		After: When the cable loss is 5 dB, the setting range is –135.0 to –15.0 dBm (Port1/Port2/Port3/Port4).
5.2.2	5-134	REGMRXPWR Parameter level(i) Range
		Before: OFF, –130.0 to –10.0 dBm, (Port1/Port2) –120.0 to 0.0 dBm, (Port3/Port4)
		After: OFF, –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-220	ILVL Parameter level Range
		Before: –30.0 to +35.0 dBm (Port 1/Port 2) –30.0 to +25.0 dBm (Port 3/Port 4)
		After: –30.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –25.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –25.0 to +40.0 dBm.
5.2.3	5-221	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
5.2.3	5-234	SEQSGPORT Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)

Items in MX887012A Manual to be Replaced or Deleted (6/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="7">5.2.3</td><td rowspan="7">5-238</td><td>SEQTRX
Parameter ref Range</td></tr>
<tr><td>Before: –65.0 to +35 dBm (Port1/Port2)
–65.0 to +25 dBm (Port3/Port4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)</td></tr>
<tr><td>Parameter level Range</td></tr>
<tr><td>Before: –130.0 to –10.0 dBm (Port 1/Port 2)
–120.0 to 0.0 dBm (Port 3/Port 4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)</td></tr>
<tr><td rowspan="6">5.2.3</td><td rowspan="6">5-240</td><td>SEQTX
Parameter ref Range</td></tr>
<tr><td>Before: –65.0 to +35 dBm (Port1/Port2)
–65.0 to +25 dBm (Port3/Port4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)</td></tr>
<tr><td>Details</td></tr>
<tr><td>Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.</td></tr>
<tr><td>After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.</td></tr>
<tr><td rowspan="3">6.3.4</td><td rowspan="3">6-9</td><td>Output EVM (4) Procedure 4 Test Port3</td></tr>
<tr><td>Before: Output Level: –0.9 dBm
Input Level: +25 dBm</td></tr>
<tr><td>After: Output Level: –10.9 dBm
Input Level: +35 dBm</td></tr>
<tr><td rowspan="3">6.3.5</td><td rowspan="3">6-11</td><td>Tx power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–30 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
</table>
</td></tr>
<tr><td>After: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–30 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
</table>
</td></tr>
<tr><td rowspan="3">6.3.8</td><td rowspan="3">6-17</td><td>Frequency/Modulation measurement (GMSK) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4 input level: –30 dBm≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4 input level: –30 dBm≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-19</td><td>Frequency/Modulation measurement (8PSK) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4 Input level: –30 dBm≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4 Input level: –30 dBm≤, ≤+35 dBm</td></tr>
</table>

Items in MX887012A Manual to be Replaced or Deleted (7/8)

Section	Page	Detail
6.3.10	6-21	Output spectrum measurement (1) Test specifications
		Before: Test Port3/4 input level: –10 dBm≤, ≤+25 dBm
		After: Test Port3/4 input level: –10 dBm≤, ≤+35 dBm
6.3.12	6-27	Output Phase Error/EVM Output Phase Error (Average)
		Before: Phase Error (degree) :Test Port3 MU887000A Output Level: –0.9 dBm
		After: Phase Error (degree) :Test Port3 MU887001A Output Level: –10.9 dBm
		Output EVM Output EVM
		Before: EVM (%rms) :Test Port3 MU887000A Output Level: –0.9 dBm
		After: EVM (%rms) :Test Port3 MU887001A Output Level: –10.9 dBm
6.3.12	6-29	Tx Power Measurement Accuracy (CW) (continued) Tx Power Measurement Accuracy Port 3/4
		Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) Lo limit: –0.7 Hi limit: +0.7 Measurement uncertainty: ±0.27
		After: MU887001A Input Level:–10 dBm Measurement Accuracy (dB) Lo limit:–0.5 Hi limit: +0.5 Measurement uncertainty:±0.15
		Tx Power Measurement Accuracy (CW) (continued) Tx Power Measurement Accuracy Port 3/4
		Before: MU887000A Input Level: –30 dBm Measurement Accuracy (dB) Lo limit:–0.7 Hi limit: +0.7 Measurement uncertainty:±0.27
		After: MU887001A Input Level: –30 dBm Measurement Accuracy (dB) Lo limit:–0.5 Hi limit: +0.5 Measurement uncertainty:±0.15

Items in MX887012A Manual to be Replaced or Deleted (8/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>RF Power Input Level Range</td></tr>
<tr><td>Before: Port1, Port2:–30.0 to +35.0 dBm
Port3, Port4: –30.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –30.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>RF Power Measurement Accuracy</td></tr>
<tr><td>Before: Port1, Port2:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–30 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
</table>
Port3, Port4:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–30 to +25 dBm</td><td>±0.7 dB</td></tr>
</table></td></tr>
<tr><td>After: Port1 to 4:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –30.0 to +35.0 dBm
Port3, Port4: –30.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –30.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Output RF Spectrum Measurement Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
</table>

1.10 Items To Be Replaced Or Deleted for MX887013/14A

The following table shows the items in the *MX887013/14A LTE FDD/TDD Uplink TX Measurement Operation Manual* (M-W3610AE) that need to be replaced or deleted.

Items in MX887013A/14A Manual to be Replaced or Deleted (1/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>-----</td><td>All</td><td>Before: MU887000A</td></tr>
<tr><td></td><td></td><td>After: MU887001A</td></tr>
<tr><td rowspan="9">3.2.1</td><td rowspan="9">3-6</td><td>Sequence table setting items Input level:</td></tr>
<tr><td>Before: –65.0 to +35.0 dBm (Test Port 1, 2)
–65.0 to +25.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output level:</td></tr>
<tr><td>Before: –130.0 to –10.0 dBm (Test Port 1, 2)
–120.0 to 0.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output port</td></tr>
<tr><td>Before: When selecting Port 3 or 4, make sure the port number is not the same as the input port.</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">3.2.3</td><td rowspan="3">3-13</td><td>Table 3.2.3-1 Error Cause</td></tr>
<tr><td>Before:
<table>
<tr><th>Parameter</th><th>Cause</th></tr>
<tr><td>Port</td><td>Port 3 is set for both input port and output port.
Or Port 4 is set for both input port and output port.</td></tr>
</table>
</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">4.2.1</td><td rowspan="3">4-42</td><td>:ROUTe:PORT:CONNect:DIRection
Details</td></tr>
<tr><td>Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously.
Test Port3 and Test Port4 can be set to either input or output at one time.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.</td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (2/20)

Section	Page	Detail
4.2.2	4-50	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.2	4-111	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.2	4-112	:CONFigure:CELLular:MEASurement:RFSettings:LEVel:SCC1 Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-174	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.00 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.

Items in MX887013A/14A Manual to be Replaced or Deleted (3/20)

Section	Page	Detail
4.2.3	4-176	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-226	:CONFigure:CELLular:SEQuence:RFSettings:TRX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter <level> Range
		Before: –130.0 to –10.00 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-228	:CONFigure:CELLular:SEQuence:RFSettings:TX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-229	:CONFigure:CELLular:SEQuence:RFSettings:TX:SCC1 Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887013A/14A Manual to be Replaced or Deleted (4/20)

Section	Page	Detail
4.2.3	4-231	:CONFigure:CELLular:SEQuence:RXPort Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)
5.2.1	5-29	PORT Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.
5.2.2	5-74	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.2	5-75	ILVL_SCC1 Parameter level Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887013A/14A Manual to be Replaced or Deleted (5/20)

Section	Page	Detail	
5.2.2	5-99	OLVL Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
5.2.3	5-167	ILVL Parameter level Range	
		Before:	–65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.3	5-258	OLVL Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
5.2.3	5-271	SEQSGPORT Details	
		Before:	PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After:	(Subject to deletion)

Items in MX887013A/14A Manual to be Replaced or Deleted (6/20)

Section	Page	Detail
5.2.3	5-275	SEQTRX Parameter ref Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-277	SEQTX Parameter ref Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.3	5-278	SEQTX_SCC1 Parameter ref Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
6.4.1	6-15	Measuring output EVM (4) Test Procedure 4. Test Port3
		Before: Output Level: –2.9 dBm Input Level: +25 dBm
		After: Output Level: –12.9 dBm Input Level: +35 dBm

Items in MX887013A/14A Manual to be Replaced or Deleted (7/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="5">6.4.2</td><td rowspan="5">6-16</td><td>Tx power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
(600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm≤, <–20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm≤, <–50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–20 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–50 dBm≤, <–20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–60 dBm≤, <–50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>Before: Test Port3/4
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm≤, ≤+25 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm≤, <–20 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm≤, <–50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm≤, ≤+35 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm≤, <–20 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm≤, <–50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (8/20)

Section	Page	Detail
6.4.4	6-20	Frequency/modulation measurement (1) Test specifications
		Before: Test Port3/4 Input level: –40 dBm≤, ≤+25 dBm
		After: Test Port3/4 Input level: –40 dBm≤, ≤+35 dBm
6.4.6	6-24	Adjacent Channel Leakage Power Ratio (1) Test specifications
		Before: Test Port3/4 Input level range: –10 dBm≤, ≤+25 dBm
		After: Test Port3/4 Input level range: –10 dBm≤, ≤+35 dBm
6.4.7	6-32	Output EVM Output EVM
		Before: EVM (%rms) Test Port3 MU887000A Output Level: –2.9 dBm
		After: EVM (%rms) Test Port3 MU887001A Output Level: –12.9 dBm
6.4.7	6-35	Tx Power Measurement Accuracy (CW) (Cont'd) Tx Power Measurement Accuracy Port3/4
		Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.17
		After: MU887001A Input Level: –10 dBm Measurement Accuracy (dB) Lo limit: –0.5 Hi Limit: +0.5 Measurement uncertainty: ±0.15
6.4.7	6-35	Tx Power Measurement Accuracy (CW) (Cont'd) Tx Power Measurement Accuracy Port3/4
		Before: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14
		After: MU887001A Input Level:–50 dBm Measurement Accuracy (dB) Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.14
6.4.7	6-36	Tx Power Measurement Accuracy (CW) (Cont'd) Tx Power Measurement Accuracy Port3/4
		Before: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) Lo limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.14
		After: MU887001A Input Level:–60 dBm Measurement Accuracy (dB) Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14

Items in MX887013A/14A Manual to be Replaced or Deleted (9/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="5">6.6.1</td><td rowspan="5">6-58</td><td>Tx power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
(Excluding Intraband Contiguous CA SCC, PCC+SCC measurement)
(698 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm≤, <–20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm≤, <–50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(Excluding Intraband Contiguous CA SCC, PCC+SCC measurement)
(698 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–20 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–50 dBm≤, <–20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–60 dBm≤, <–50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>Before: Test Port3/4
(Excluding Intraband Contiguous CA SCC, PCC+SCC measurement)
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm≤, ≤+25 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm≤, <–20 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm≤, <–50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(Excluding Intraband Contiguous CA SCC, PCC+SCC measurement)
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm≤, ≤+35 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm≤, <–20 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm≤, <–50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (10/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="5">6.6.1</td><td rowspan="5">6-58</td><td>Tx power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
(Intraband Contiguous CA SCC, PCC+SCC measurement)
(698 MHz ≤ Frequency ≤ 2700 MHz,)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm≤, <–20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm≤, <–50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(Intraband Contiguous CA SCC, PCC+SCC measurement)
(698 MHz ≤ Frequency ≤ 2700 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–50 dBm≤, <+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–60 dBm≤, <–50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>Before: Test Port3/4
(Intraband Contiguous CA SCC, PCC+SCC measurement)
(3400 MHz < Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±1.0 dB</td><td>–50 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.3 dB</td><td>–60 dBm≤, <–50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(Intraband Contiguous CA SCC, PCC+SCC measurement)
(3400 MHz < Frequency ≤3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±1.0 dB</td><td>–50 dBm≤, <+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.3 dB</td><td>–60 dBm≤, <–50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (11/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="2">6.6.1</td><td rowspan="2">6-58</td><td>Tx power measurement accuracy (CW) (1) Test specifications
Before: Test Port3/4
(Intraband Contiguous CA SCC, PCC+SCC measurement)
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±1.0 dB</td><td>–50 dBm≤, ≤+25 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.3 dB</td><td>–60 dBm≤, <–50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(Intraband Contiguous CA SCC, PCC+SCC measurement)
(3800 MHz < Frequency ≤4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±1.0 dB</td><td>–50 dBm≤, <+35 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.3 dB</td><td>–60 dBm≤, <–50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
<tr><td>6.6.3</td><td>6-64</td><td>Frequency/modulation measurement (1) Test specifications
Before: Test Port3/4
Input level: –40 dBm≤, ≤+25 dBm
After: Test Port3/4
Input level: –40 dBm≤, ≤+35 dBm</td></tr>
<tr><td>6.6.5</td><td>6-69</td><td>Adjacent Channel Leakage Power Ratio (1) Test specifications
Before: Test Port3/4 Input level range: –10 dBm≤, ≤+25 dBm
After: Test Port3/4 Input level range: –10 dBm≤, ≤+35 dBm</td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (12/20)

Section	Page	Detail
6.6.6	6-79	Tx power measurement accuracy (CW) (Cont'd) Port3/4 Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) PCC (MHz): 717.8, 2719.8, 3400.0, 3780.2 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.17 PCC (MHz): 4180.2 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.28 After: MU887001A Input Level: –10 dBm Measurement Accuracy (dB) PCC (MHz): 717.8, 2719.8, 3400.0, 3780.2 Lo limit: –0.5 Hi Limit: +0.5 Measurement uncertainty: ±0.15 PCC (MHz): 4180.2 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.33
		Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) SCC:PCC-19.8 (MHz): 698.0, 2700.0 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.17 SCC:PCC-19.8 (MHz): 3380.2, 3760.4 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.14 SCC:PCC-19.8 (MHz): 4160.4 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.20 After: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) SCC:PCC-19.8 (MHz): 698.0, 2700.0 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.15 SCC:PCC-19.8 (MHz): 3380.2, 3760.4 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.14 SCC:PCC-19.8 (MHz): 4160.4 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.33
		Tx power measurement accuracy (CW) (Cont'd) Port3/4 Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) SCC:PCC+19.8 (MHz): 737.6, 2739.6 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.17 SCC:PCC+19.8 (MHz): 3419.8, 3800.0 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.14 SCC:PCC+19.8 (MHz): 4200.0 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.20 After: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) SCC:PCC+19.8 (MHz): 737.6, 2739.6 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.15 SCC:PCC+19.8 (MHz): 3419.8, 3800.0 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.14 SCC:PCC+19.8 (MHz): 4200.0 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.33

Items in MX887013A/14A Manual to be Replaced or Deleted (13/20)

Section	Page	Detail
6.6.6	6-80	Tx power measurement accuracy (CW) (Cont'd) Port3/4 Before: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) PCC (MHz): 717.8, 2719.8, 3400.0, 3780.2 Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14 PCC (MHz): 4180.2 Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.20 After: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) PCC (MHz): 717.8, 2719.8, 3400.0, 3780.2 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.14 PCC (MHz): 4180.2 Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.33
		Before: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) SCC:PCC-19.8 (MHz): 698.0, 2700.0 Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.24 SCC:PCC-19.8 (MHz): 3380.2, 3760.4 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.24 SCC:PCC-19.8 (MHz): 4160.4 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.20 After: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) SCC:PCC-19.8 (MHz): 698.0, 2700.0 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.14 SCC:PCC-19.8 (MHz): 3380.2, 3760.4 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.14 SCC:PCC-19.8 (MHz): 4160.4 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.33
		Before: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) SCC:PCC+19.8 (MHz): 737.6, 2739.6 Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.24 SCC:PCC+19.8 (MHz): 3419.8, 3800.0 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.24 SCC:PCC+19.8 (MHz): 4200.0 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.20 After: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) SCC:PCC+19.8 (MHz): 737.6, 2739.6 Lo limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.14 SCC:PCC+19.8 (MHz): 3419.8, 3800.0 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.14 SCC:PCC+19.8 (MHz): 4200.0 Lo limit: –1.0 Hi Limit: +1.0 Measurement uncertainty: ±0.33

Items in MX887013A/14A Manual to be Replaced or Deleted (14/20)

Section	Page	Detail
6.6.6	6-81	Tx power measurement accuracy (CW) (Cont'd) Port3/4 Before: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) PCC(MHz): 717.8, 2719.8, 3400.0, 3780.2 Lo limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.14 PCC (MHz): 4180.2 Lo limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.20 After: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) PCC (MHz): 717.8, 2719.8, 3400.0, 3780.2 Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.33 PCC (MHz): 4180.2 Lo limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.33
		Before: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) SCC:PCC-19.8 (MHz): 698.0, 2700.0 Lo limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.14 SCC:PCC-19.8 (MHz): 3380.2, 3760.4 Lo limit: –1.3 Hi Limit: +1.3 Measurement uncertainty: ±0.14 SCC:PCC-19.8 (MHz): 4160.4 Lo limit: –1.3 Hi Limit: +1.3 Measurement uncertainty: ±0.20 After: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) SCC:PCC-19.8 (MHz): 698.0, 2700.0 Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.34 SCC:PCC-19.8 (MHz): 3380.2, 3760.4 Lo limit: –1.3 Hi Limit: +1.3 Measurement uncertainty: ±0.14 SCC:PCC-19.8 (MHz): 4160.4 Lo limit: –1.3 Hi Limit: +1.3 Measurement uncertainty: ±0.33
		Before: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) SCC:PCC+19.8 (MHz): 737.6, 2739.6 Lo limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.14 SCC:PCC+19.8 (MHz): 3419.8, 3800.0 Lo limit: –1.3 Hi Limit: +1.3 Measurement uncertainty: ±0.14 SCC:PCC+19.8 (MHz): 4200.0 Lo limit: –1.3 Hi Limit: +1.3 Measurement uncertainty: ±0.20 After: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) SCC:PCC+19.8 (MHz): 737.6, 2739.6 Lo limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.34 SCC:PCC+19.8 (MHz): 3419.8, 3800.0 Lo limit: –1.3 Hi Limit: +1.3 Measurement uncertainty: ±0.14 SCC:PCC+19.8 (MHz): 4200.0 Lo limit: –1.3 Hi Limit: +1.3 Measurement uncertainty: ±0.33

Items in MX887013A/14A Manual to be Replaced or Deleted (15/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A.1</td><td rowspan="3">A-3</td><td>RF Power Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –40.0 to +35.0 dBm</td></tr>
<tr><td rowspan="2">Appendix A.1</td><td rowspan="2">A-3</td><td>RF Power Measurement Accuracy (1/2)</td></tr>
<tr><td>Before: Port1, Port2:
Frequency: 600 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.3 dB (typ.)</td></tr>
</table>
Frequency: 600 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.5 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±0.9 dB</td></tr>
</table>
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
Port3, Port4:
Frequency: 600 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (16/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>Appendix A.1</td><td>A-3</td><td>
RF Power Measurement Accuracy (2/2)
After: Port1 to 4:
Frequency: 600 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.3 dB (typ.)</td></tr>
</table>
Frequency: 600 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.5 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±0.9 dB</td></tr>
</table>
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
</td></tr>
<tr><td rowspan="3">Appendix A.1</td><td rowspan="3">A-4</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –40.0 to +35.0 dBm
Port3, Port4: –40.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –40.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A.1</td><td rowspan="3">A-4</td><td>Occupied Bandwidth Input Level Range</td></tr>
<tr><td>Before Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After Port1 to 4: –10.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A.1</td><td rowspan="3">A-4</td><td>Adjacent Channel Leakage Power Ratio Input Level Range</td></tr>
<tr><td>Before Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After Port1 to 4: –10.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A.1</td><td rowspan="3">A-4</td><td>Spectrum Emission Mask (SEM) Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (17/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A.2</td><td rowspan="3">A-6</td><td>RF Power Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –40.0 to +35.0 dBm</td></tr>
<tr><td rowspan="2">Appendix A.2</td><td rowspan="2">A-6</td><td>RF Power Measurement Accuracy (1/4)</td></tr>
<tr><td>Before: (1/3)
Port1, Port2:
(Excluding when measuring Intraband Contiguous CA SCC and PCC + SCC)
Frequency: 698 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.3 dB (typ.)</td></tr>
</table>
Frequency: 698 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.5 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±0.9 dB</td></tr>
</table>
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
Port1, Port2:
(When measuring Intraband Contiguous CA SCC and PCC + SCC)
Frequency: 698 MHz ≤ f ≤ 2700 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.5 dB (typ.)</td></tr>
</table>
Frequency: 698 MHz ≤ f ≤ 2700 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–50 to +35 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±0.9 dB</td></tr>
</table>
</td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (18/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>Appendix A.2</td><td>A-6</td><td>
RF Power Measurement Accuracy (2/4)
Before: (2/3)
Port1, Port2:
(When measuring Intraband Contiguous CA SCC and PCC + SCC)
Frequency: 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–50 to +35 dBm</td><td>±1.0 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.3 dB</td></tr>
</table>
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–50 to +35 dBm</td><td>±1.0 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.3 dB</td></tr>
</table>
Port3, Port4:
(Excluding when measuring Intraband Contiguous CA SCC and PCC + SCC)
Frequency: 698 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
Port3, Port4:
(When measuring Intraband Contiguous CA SCC and PCC + SCC)
Frequency: 698 MHz ≤ f ≤ 2700 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
Frequency: 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–50 to +25 dBm</td><td>±1.0 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.3 dB</td></tr>
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</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (19/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="2">Appendix A.2</td><td rowspan="2">A-6</td><td>RF Power Measurement Accuracy (3/4)
Before: (3/3)
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–50 to +25 dBm</td><td>±1.0 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.3 dB</td></tr>
</table></td></tr>
<tr><td>After: (1/2)
Port1 to 4:
(Excluding when measuring Intraband Contiguous CA SCC and PCC + SCC)
Frequency: 698 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.3 dB (typ.)</td></tr>
</table>
Frequency: 698 MHz ≤ f ≤ 2700 MHz, 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
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<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.5 dB</td></tr>
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</table>
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
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</table>
Port1 to 4:
(When measuring Intraband Contiguous CA SCC and PCC + SCC)
Frequency: 698 MHz ≤ f ≤ 2700 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
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<tr><td>–60 to –50 dBm</td><td>±0.9 dB</td></tr>
</table></td></tr>
</table>

Items in MX887013A/14A Manual to be Replaced or Deleted (20/20)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>Appendix A.2</td><td>A-6</td><td>RF Power Measurement Accuracy (4/4)
After: (2/2)
Frequency: 3400 MHz ≤ f ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–50 to +35 dBm</td><td>±1.0 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.3 dB</td></tr>
</table>
Frequency: 3800 MHz < f ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–50 to +35 dBm</td><td>±1.0 dB</td></tr>
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</table></td></tr>
<tr><td rowspan="3">Appendix A.2</td><td rowspan="3">A-8</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –40.0 to +35.0 dBm
Port3, Port4: –40.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –40.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A.2</td><td rowspan="3">A-8</td><td>Occupied Bandwidth Input Level Range</td></tr>
<tr><td>Before Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After Port1 to 4: –10.0 to +35.0 dBm</td></tr>
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Port3, Port4: –10.0 to +25.0 dBm</td></tr>
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<tr><td>Before: Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
</table>

1.11 Items To Be Replaced Or Deleted for MX887015A

The following table shows the items in the *MX887015A CDMA2000 Reverse Link TX Measurement Operation Manual* (M-W3611AE) that need to be replaced or deleted.

Items in MX887015A Manual to be Replaced or Deleted (1/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>-----</td><td>All</td><td>Before: MU887000A</td></tr>
<tr><td></td><td></td><td>After: MU887001A</td></tr>
<tr><td rowspan="10">3.2.1</td><td rowspan="10">3-6</td><td>Sequence table setting items Input Level:</td></tr>
<tr><td>Before: –65.0 to +35.0 dBm (Test Port 1, 2)
–65.0 to +25.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output Level:</td></tr>
<tr><td>Before: –130.0 to–10.0 dBm (Test Port 1, 2)
–120.0 to 0.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output port</td></tr>
<tr><td>Before: When selecting Port 3 or 4, make sure the port number is not the same as the input port.</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">3.2.3</td><td rowspan="3">3-10</td><td>Table 3.2.3-1 Error Cause</td></tr>
<tr><td>Before:
<table>
<tr><th>Parameter</th><th>Cause</th></tr>
<tr><td>Port</td><td>Port 3 is set for both input port and output port.
Or Port 4 is set for both input port and output port.</td></tr>
</table>
</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">4.2.1</td><td rowspan="3">4-31</td><td>:ROUTe:PORT:CONNect:DIRection
Details</td></tr>
<tr><td>Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously.
Test Port3 and Test Port4 can be set to either input or output at one time.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.</td></tr>
</table>

Items in MX887015A Manual to be Replaced or Deleted (2/8)

Section	Page	Detail
4.2.2	4-50	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.2	4-55	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-90	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.3	4-92	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887015A Manual to be Replaced or Deleted (3/8)

Section	Page	Detail
4.2.3	4-106	:CONFigure:CELLular:SEQuence:RFSettings:TRX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-108	:CONFigure:CELLular:SEQuence:RFSettings:TX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-109	:CONFigure:CELLular:SEQuence:RXPort Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)
5.2.1	5-23	PORT Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.

Items in MX887015A Manual to be Replaced or Deleted (4/8)

Section	Page	Detail	
5.2.2	5-53	ILVL Parameter level Range	
		Before:	–65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.2	5-62	OLVL Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
5.2.3	5-121	ILVL Parameter level Range	
		Before:	–65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.3	5-122	OLVL Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.

Items in MX887015A Manual to be Replaced or Deleted (5/8)

Section	Page	Detail	
5.2.3	5-135	SEQSGPORT Details	
		Before:	PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After:	(Subject to deletion)
5.2.3	5-139	SEQTRX Parameter ref Range	
		Before:	–65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
	5-140	Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-141	SEQTX Parameter ref Range	
		Before:	–65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
6.3.4	6-10	Output Rho	(4) Procedure 4 Test Port3
		Before:	Output Level: –0.9 dBm Input Level: +25 dBm
		After:	Output Level: –10.9 dBm Input Level: +35 dBm

Items in MX887015A Manual to be Replaced or Deleted (6/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">6.3.5</td><td rowspan="3">6-11</td><td>Tx power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–25 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–65 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–25 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–65 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td rowspan="3">6.3.7</td><td rowspan="3">6-15</td><td>Frequency/modulation measurement (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input level: –30 dBm≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input level: –30 dBm≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-22</td><td>Output Rho Output Rho</td></tr>
<tr><td>Before: Rho: Test Port3
MU887000A Output Level:–0.9 dBm</td></tr>
<tr><td>After: Rho: Test Port3
MU887001A Output Level:–10.9 dBm</td></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-25</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level:–10 dBm Measurement Accuracy (dB)
Lo Limit: –0.7 Hi Limit: +0.7
Measurement uncertainty: ±0.17</td></tr>
<tr><td>After: MU887001A Input Level:–10 dBm Measurement Accuracy (dB)
Lo Limit: –0.5 Hi Limit: +0.5
Measurement uncertainty:±0.15</td></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-25</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level:–55 dBm Measurement Accuracy (dB)
Lo Limit: –0.9 Hi Limit: +0.9
Measurement uncertainty:±0.14</td></tr>
<tr><td>After: MU887001A Input Level:–55 dBm Measurement Accuracy (dB)
Lo Limit: –0.7 Hi Limit: +0.7
Measurement uncertainty:±0.14</td></tr>
</table>

Items in MX887015A Manual to be Replaced or Deleted (7/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-26</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level:–65 dBm Measurement Accuracy (dB)
Lo Limit: –1.1 Hi Limit: +1.1
Measurement uncertainty:±0.14</td></tr>
<tr><td>After: MU887001A Input Level:–65 dBm Measurement Accuracy (dB)
Lo Limit: –0.9 Hi Limit: +0.9
Measurement uncertainty:±0.13</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>RF Power Input Level Range</td></tr>
<tr><td>Before: Port1, Port2:–65.0 to +35.0 dBm
Port3, Port4:–65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4:–65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>RF Power Measurement Accuracy</td></tr>
<tr><td>Before: Port1, Port2:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table>
Port3, Port4:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
<tr><td>After: Port1 to 4:After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2:–30.0 to +35.0 dBm
Port3, Port4:–30.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4:–30.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Code Domain Power Input Level Range</td></tr>
<tr><td>Before: Port1, Port2:–30.0 to +35.0 dBm
Port3, Port4:–30.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –30.0 to +35.0 dBm</td></tr>
</table>

Items in MX887015A Manual to be Replaced or Deleted (8/8)

Section	Page	Detail
Appendix A	A-2	Occupied Bandwidth Input Level Range
		Before: Port1, Port2: –10.0 to +35.0 dBm Port3, Port4: –10.0 to +25.0 dBm
		After: Port1 to 4: –10.0 to +35.0 dBm

1.12 Items To Be Replaced Or Deleted for MX887016A

The following table shows the items in the *MX887016A 1xEV-DO Reverse Link TX Measurement Operation Manual* (M-W3612AE) that need to be replaced or deleted.

Items in MX887016A Manual to be Replaced or Deleted (1/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="2">-----</td><td rowspan="2">All</td><td>Before: MU887000A</td></tr>
<tr><td>After: MU887001A</td></tr>
<tr><td rowspan="10">3.2.1</td><td rowspan="10">3-6</td><td>Sequence table setting items Input level:</td></tr>
<tr><td>Before: –65.0 to +35.0 dBm (Test Port 1, 2)
–65.0 to +25.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output level:</td></tr>
<tr><td>Before: –130.0 to –10.0 dBm (Test Port 1, 2)
–120.0 to 0.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output port</td></tr>
<tr><td>Before: When selecting Port 3 or 4, make sure the port number is not the same as the input port.</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">3.2.3</td><td rowspan="3">3-10</td><td>Table 3.2.3-1 Error Cause</td></tr>
<tr><td>Before:
<table>
<tr><th>Parameter</th><th>Cause</th></tr>
<tr><td>Port</td><td>Port 3 is set for both input port and output port.
Or Port 4 is set for both input port and output port.</td></tr>
</table>
</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">4.2.1</td><td rowspan="3">4-31</td><td>:ROUTe:PORT:CONNect:DIRection
Details</td></tr>
<tr><td>Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously.
Test Port3 and Test Port4 can be set to either input or output at one time.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.</td></tr>
</table>

Items in MX887016A Manual to be Replaced or Deleted (2/8)

Section	Page	Detail
4.2.2	4-51	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.2	4-56	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-91	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.3	4-93	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887016A Manual to be Replaced or Deleted (3/8)

Section	Page	Detail
4.2.3	4-108	:CONFigure:CELLular:SEQuence:RFSettings:TRX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-110	:CONFigure:CELLular:SEQuence:RFSettings:TX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-111	:CONFigure:CELLular:SEQuence:RXPort Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)
5.2.1	5-22	PORT Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.

Items in MX887016A Manual to be Replaced or Deleted (4/8)

Section	Page	Detail
5.2.2	5-52	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.2	5-61	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
5.2.3	5-125	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.3	5-126	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.

Items in MX887016A Manual to be Replaced or Deleted (5/8)

Section	Page	Detail	
5.2.3	5-140	SEQSGPORT Details	
		Before:	PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After:	(Subject to deletion)
5.2.3	5-144	SEQTRX Parameter ref Range	
		Before:	–65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
	5-145	Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
5.2.3	5-146	SEQTX Parameter ref Range	
		Before:	–65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
6.3.4	6-10	Output Rho	(4) Procedure 4 Test Port3
		Before:	Output Level: –0.9 dBm Input Level: +25 dBm
		After:	Output Level: –10.9 dBm Input Level: +35 dBm

Items in MX887016A Manual to be Replaced or Deleted (6/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">6.3.5</td><td rowspan="3">6-11</td><td>Tx power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–25 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–65 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–25 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–65 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td rowspan="3">6.3.7</td><td rowspan="3">6-15</td><td>Frequency/Modulation measurement (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input level: –30 dBm ≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input level: –30 dBm≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-22</td><td>Output Rho Output Rho</td></tr>
<tr><td>Before: Rho: Test Port3
MU887000A Output Level: –0.9 dBm</td></tr>
<tr><td>After: Rho: Test Port3
MU887001A Output Level: –10.9 dBm</td></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-25</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level: –10 dBm
Measurement Accuracy (dB)
Lo Limit: –0.7 Hi Limit: +0.7
Measurement uncertainty: ±0.17</td></tr>
<tr><td>After: MU887001A Input Level:–10 dBm
Measurement Accuracy (dB)
Lo Limit: –0.5 Hi Limit: +0.5
Measurement uncertainty:±0.15</td></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-25</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level:–55 dBm
Measurement Accuracy (dB)
Lo Limit: –0.9 Hi Limit: +0.9
Measurement uncertainty:±0.14</td></tr>
<tr><td>After: MU887001A Input Level:–55 dBm
Measurement Accuracy (dB)
Lo Limit: –0.7 Hi Limit: +0.7
Measurement uncertainty:±0.14</td></tr>
</table>

Items in MX887016A Manual to be Replaced or Deleted (7/8)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">6.3.9</td><td rowspan="3">6-26</td><td>Tx Power Measurement Accuracy (CW) (continued)
Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input Level:–65 dBm
Measurement Accuracy (dB)
Lo Limit: –1.1 Hi Limit: +1.1
Measurement uncertainty:±0.14</td></tr>
<tr><td>After: MU887001A Input Level:–65 dBm
Measurement Accuracy (dB)
Lo Limit: –0.9 Hi Limit: +0.9
Measurement uncertainty:±0.13</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>RF Power Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>RF Power Measurement Accuracy</td></tr>
<tr><td>Before: Port1, Port2: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table>
Port3, Port4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
<tr><td>After: Port1 to 4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –30.0 to +35.0 dBm
Port3, Port4: –30.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –30.0 to +35.0 dBm</td></tr>
</table>

Items in MX887016A Manual to be Replaced or Deleted (8/8)

Section	Page	Detail
Appendix A	A-2	Code Domain Power Input Level Range
		Before: Port1, Port2: –30.0 to +35.0 dBm Port3, Port4: –30.0 to +25.0 dBm
		After Port1 to 4: –30.0 to +35.0 dBm
Appendix A	A-2	Occupied Bandwidth Input Level Range
		Before: Port1, Port2: –10.0 to +35.0 dBm Port3, Port4: –10.0 to +25.0 dBm
		After: Port1 to 4: –10.0 to +35.0 dBm

1.13 Items To Be Replaced Or Deleted for MX887017A

The following table shows the items in the *MX887017A TD-SCDMA Uplink TX Measurement Operation Manual* (M-W3652AE) that need to be replaced or deleted.

Items in MX887017A Manual to be Replaced or Deleted (1/7)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="2">-----</td><td rowspan="2">All</td><td>Before: MU887000A</td></tr>
<tr><td>After: MU887001A</td></tr>
<tr><td rowspan="10">3.2.1</td><td rowspan="10">3-6</td><td>Sequence table setting items Input level:</td></tr>
<tr><td>Before: –65.0 to +35.0 dBm (Test Port 1, 2)
–65.0 to +25.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output level:</td></tr>
<tr><td>Before: –130.0 to –10.0 dBm (Test Port 1, 2)
–120.0 to 0.0 dBm (Test Port 3, 4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Test Port 1, 2, 3, 4)</td></tr>
<tr><td>Sequence table setting items Output port</td></tr>
<tr><td>Before: When selecting Port 3 or 4, make sure the port number is not the same as the input port.</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">3.2.3</td><td rowspan="3">3-9</td><td>Table 3.2.3-1 Error Cause</td></tr>
<tr><td>Before:
<table>
<tr><th>Parameter</th><th>Cause</th></tr>
<tr><td>Port</td><td>Port 3 is set for both input port and output port.
Or Port 4 is set for both input port and output port.</td></tr>
</table>
</td></tr>
<tr><td>After: (Subject to deletion)</td></tr>
<tr><td rowspan="3">4.2.1</td><td rowspan="3">4-35</td><td>:ROUTe:PORT:CONNect:DIRection
Details</td></tr>
<tr><td>Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously.
Test Port3 and Test Port4 can be set to either input or output at one time.</td></tr>
<tr><td>After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.</td></tr>
</table>

Items in MX887017A Manual to be Replaced or Deleted (2/7)

Section	Page	Detail
4.2.2	4-40	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.2	4-43	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-117	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.3	4-119	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887017A Manual to be Replaced or Deleted (3/7)

Section	Page	Detail
4.2.3	4-123	:CONFigure:CELLular:SEQuence:RFSettings:TRX Parameter <ref> Range
		Before: –65.0 to +35.0 dBm (Port1/Port2) –65.0 to +25.0 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
4.2.3	4-125	:CONFigure:CELLular:SEQuence:RFSettings:TX Parameter <ref> Range
		Before: –65.0 to +35 dBm (Port1/Port2) –65.0 to +25 dBm (Port3/Port4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
4.2.3	4-126	:CONFigure:CELLular:SEQuence:RXPort Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)
5.2.1	5-29	PORT Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.
5.2.2	5-69	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887017A Manual to be Replaced or Deleted (4/7)

Section	Page	Detail
5.2.2	5-83	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
5.2.3	5-114	ILVL Parameter level Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.3	5-115	OLVL Parameter level Range
		Before: –130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
5.2.3	5-128	SEQSGPORT Details
		Before: PORT3 cannot be set when PORT3 is selected for RF signal input port. PORT4 cannot be set when PORT4 is selected for RF signal input port.
		After: (Subject to deletion)

Items in MX887017A Manual to be Replaced or Deleted (5/7)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="6">5.2.3</td><td rowspan="6">5-132</td><td>SEQTRX
Parameter ref Range</td></tr>
<tr><td>Before: –65.0 to +35 dBm (Port1/Port2)
–65.0 to +25 dBm (Port3/Port4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)</td></tr>
<tr><td>Parameter level Range</td></tr>
<tr><td>Before: –130.0 to –10.0 dBm (Port1/Port2)
–120.0 to 0.0 dBm (Port3/Port4)</td></tr>
<tr><td>After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)</td></tr>
<tr><td rowspan="6">5.2.3</td><td rowspan="6">5-134</td><td>SEQTX
Parameter ref Range</td></tr>
<tr><td>Before: –65.0 to +35 dBm (Port1/Port2)
–65.0 to +25 dBm (Port3/Port4)</td></tr>
<tr><td>After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)</td></tr>
<tr><td>Details</td></tr>
<tr><td>Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.</td></tr>
<tr><td>After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.</td></tr>
<tr><td rowspan="3">6.3.4</td><td rowspan="3">6-10</td><td>Output EVM (4) Procedure4 Test Port3</td></tr>
<tr><td>Before: Output Level: –0.9 dBm
Input Level: +25 dBm</td></tr>
<tr><td>After: Output Level: –10.9 dBm
Input Level: +35 dBm</td></tr>
<tr><td rowspan="3">6.3.5</td><td rowspan="3">6-11</td><td>Tx Power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–25 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–70 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–25 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–70 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
</table>

Items in MX887017A Manual to be Replaced or Deleted (6/7)

Section	Page	Detail
6.3.7	6-15	Frequency/Modulation measurement (1) Test specifications
		Before: Test Port3/4 Input level: –30 dBm ≤, ≤+25 dBm
		After: Test Port3/4 Input level: –30 dBm ≤, ≤+35 dBm
6.3.8	6-17	Adjacent Channel Leakage Power Ratio (1) Testing specifications
		Before: Test Port3/4 Input level range: –10 dBm ≤, ≤+25 dBm
		After: Test Port3/4 Input level range: –10 dBm ≤, ≤+35 dBm
6.3.10	6-24	Output EVM Output EVM
		Before: EVM (%) Test Port3 MU887000A Output Level: –0.9 dBm
		After: EVM (%) Test Port3 MU887001A Output Level: –10.9 dBm
6.3.10	6-27	Tx Power Measurement Accuracy (CW) (continued) Tx Power Measurement Accuracy Port3/4
		Before: MU887000A Input Level:–10 dBm Measurement Accuracy (dB) Lo Limit: –0.7 Hi Limit: +0.7 Measurement Uncertainty: ±0.17
		After: MU887001A Input Level:–10 dBm Measurement Accuracy (dB) Lo Limit: –0.5 Hi Limit: +0.5 Measurement Uncertainty:±0.15
6.3.10	6-27	Tx Power Measurement Accuracy (CW) (continued) Tx Power Measurement Accuracy Port3/4
		Before: MU887000A Input Level:–55 dBm Measurement Accuracy (dB) Lo Limit: –0.9 Hi Limit: +0.9 Measurement Uncertainty:±0.14
		After: MU887001A Input Level:–55 dBm Measurement Accuracy (dB) Lo Limit: –0.7 Hi Limit: +0.7 Measurement Uncertainty:±0.13
6.3.10	6-28	Tx Power Measurement Accuracy (CW) (continued) Tx Power Measurement Accuracy Port3/4
		Before: MU887000A Input Level:–65 dBm Measurement Accuracy (dB) Lo Limit: –1.1 Hi Limit: +1.1 Measurement Uncertainty:±0.14
		After: MU887001A Input Level:–65 dBm Measurement Accuracy (dB) Lo Limit: –0.9 Hi Limit: +0.9 Measurement Uncertainty:±0.13

Items in MX887017A Manual to be Replaced or Deleted (7/7)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement　Input Level Range</td></tr>
<tr><td>Before:　Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After:　Port1 to 4: –65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement　Measurement Accuracy</td></tr>
<tr><td>Before:　Port1, Port2: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–70 to –55 dBm</td><td>±0.9 dB</td></tr>
</table>
Port3, Port4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–70 to –55 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
<tr><td>After:　Port1 to 4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.)
±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–70 to –55 dBm</td><td>±0.9 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Modulation Analysis　Input Level Range</td></tr>
<tr><td>Before:　Port1, Port2: –30.0 to +35.0 dBm
Port3, Port4: –30.0 to +25.0 dBm</td></tr>
<tr><td>After:　Port1 to 4: –30.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Occupied Bandwidth　Input Level Range</td></tr>
<tr><td>Before:　Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After:　Port1 to 4: –10.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Adjacent Channel Leakage Power Ratio　Input Level Range</td></tr>
<tr><td>Before:　Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After　Port1 to 4: –10.0 to +35.0 dBm</td></tr>
</table>

1.14 Items To Be Replaced for MX887021A

The following table shows the items in the *MX887021A W-CDMA/HSPA Downlink TX Measurement Operation Manual (M-W3702AE)* that need to be replaced.

Items in MX887021A Manual to be Replaced (1/4)

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
3.2.2	3-14	[:SENSe]:POWer[:RF]:RANGe:ILEVel Parameter <real> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port 1/Port 2/Port 3/Port 4)
		Default
		Before: +35.0 dBm (Port 1/Port 2) +25.0 dBm (Port 3/Port 4)
		After: +35.0 dBm (Port 1/Port 2/Port 3/Port 4)
3.2.9	3-56	[:SOURce]:POWer[:LEVel][:IMMediate][:AMPLitude] Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Default
		Before: –130.0 dBm (Port1/Port2) –120.0 dBm (Port3/Port4)
		After: –130.0 dBm (Port1/Port2/Port3/Port4)
3.2.12	3-60	:ROUTe:PORT:CONNect:DIRection Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.

Items in MX887021A Manual to be Replaced (2/4)

Section	Page	Detail
4.2	4-50	INPUTLVL Parameter <l> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port 1/Port 2/Port 3/Port 4)
		Default
		Before: +35.0 dBm (Port 1/Port 2) +25.0 dBm (Port 3/Port 4)
		After: +35.0 dBm (Port 1/Port 2/Port 3/Port 4)
4.2	4-77	OLVL Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Default
		Before: –130.0 dBm (Port1/Port2) –120.0 dBm (Port3/Port4)
		After: –130.0 dBm (Port1/Port2/Port3/Port4)
4.2	4-82	PORT Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.

Items in MX887021A Manual to be Replaced (3/4)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">5.3.2</td><td rowspan="3">5-6</td><td>Tx Power measurement accuracy (MOD) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–15 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
</table>
</td></tr>
<tr><td>After: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–15 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
</table>
</td></tr>
<tr><td rowspan="3">5.3.3</td><td rowspan="3">5-8</td><td>Frequency/Modulation measurement (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input Level:–30 dBm≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input Level:–30 dBm≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">5.3.4</td><td rowspan="3">5-10</td><td>Adjacent Channel Leakage Power Ratio (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input level range:–10 dBm≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input level range:–10 dBm≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">5.3.6</td><td rowspan="3">5-14</td><td>Tx Power Measurement Accuracy (MOD) Tx Power Measurement Accuracy Port3/4</td></tr>
<tr><td>Before: MU887000A Input level:–10 dBm
Measurement Accuracy (dB)
Lo Limit: –0.7 Hi Limit: +0.7
Measurement uncertainty: ±0.16</td></tr>
<tr><td>After: MU887001A Input Level: –10 dBm
Measurement Accuracy (dB)
Lo Limit:–0.5 Hi Limit: +0.5
Measurement uncertainty: ±0.15</td></tr>
</table>

Items in MX887021A Manual to be Replaced (4/4)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement Input level range</td></tr>
<tr><td>Before: Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement Accuracy</td></tr>
<tr><td>Before: Port1, Port2: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–15 to +35 dBm</td><td>±0.3 dB (Typ.) ±0.5 dB</td></tr>
</table>
Port3, Port4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–15 to +25 dBm</td><td>±0.7 dB</td></tr>
</table></td></tr>
<tr><td>After: Port1 to 4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–15 to +35 dBm</td><td>±0.3 dB (Typ.) ±0.5 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –30.0 to +35.0 dBm
Port3, Port4: –30.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –30.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Adjacent Channel Leakage Power Ratio Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
</table>

1.15 Items To Be Replaced for MX887023A

The following table shows the items in the *MX887023A LTE FDD Downlink TX Measurement Operation Manual* (M-W3703AE) that need to be replaced.

Items in MX887023A Manual to be Replaced (1/3)

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
3.2.2	3-18	[:SENSe]:BATCh:BAND[0]:POWer[:RF]:RANGe:ILEVel Parameter <real> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port 1/Port 2/Port 3/Port 4)
		Default
		Before: +35.0 dBm (Port 1/Port 2) +25.0 dBm (Port 3/Port 4)
		After: +35.0 dBm (Port 1/Port 2/Port 3/Port 4)
3.2.9	3-94	[:SOURce]:POWer[:LEVel][:IMMediate][:AMPLitude] Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Default
		Before: –130.0 dBm (Port1/Port2) –120.0 dBm (Port3/Port4)
		After: –130.0 dBm (Port1/Port2/Port3/Port4)
3.2.12	3-98	:ROUTe:PORT:CONNect:DIRection Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.

Items in MX887023A Manual to be Replaced (2/3)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">4.3.2</td><td rowspan="3">4-6</td><td>Tx Power Measurement Accuracy (MOD)　(1) Test specifications</td></tr>
<tr><td>Before:　Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–15 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
</table>
</td></tr>
<tr><td>After:　Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–15 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
</table>
</td></tr>
<tr><td rowspan="3">4.3.3</td><td rowspan="3">4-8</td><td>Frequency/Modulation measurement (1) Test specifications</td></tr>
<tr><td>Before:　Test Port3/4
Input Level: –15 dBm≤,≤+25 dBm</td></tr>
<tr><td>After:　Test Port3/4
Input Level: –15 dBm≤,≤+35 dBm</td></tr>
<tr><td rowspan="3">4.3.4</td><td rowspan="3">4-10</td><td>Adjacent Channel Leakage Power Ratio　(1) Test specification</td></tr>
<tr><td>Before:　Test Port3/4
Input Level Range: –10 dBm≤,≤+25 dBm</td></tr>
<tr><td>After:　Test Port3/4
Input Level Range: –10 dBm≤,≤+35 dBm</td></tr>
<tr><td rowspan="3">4.3.6</td><td rowspan="3">4-14</td><td>Tx Power measurement accuracy (MOD)　Tx Power measurement accuracy　Port3/4</td></tr>
<tr><td>Before:　MU887000A Input Level: –10 dBm Measurement Accuracy (dB)
Lo Limit: –0.7　Hi Limit: +0.7
Measurement uncertainty: ±0.16</td></tr>
<tr><td>After:　MU887001A Input Level: –10 dBm Measurement Accuracy (dB)
Lo Limit: –0.5　Hi Limit: +0.5
Measurement uncertainty: ±0.15</td></tr>
</table>

Items in MX887023A Manual to be Replaced (3/3)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power measurement accuracy</td></tr>
<tr><td>Before: Port1, Port2: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–15 to +35 dBm</td><td>±0.3 dB (Typ.) ±0.5 dB</td></tr>
</table>
Port3, Port4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–15 to +25 dBm</td><td>±0.7 dB</td></tr>
</table></td></tr>
<tr><td>After: Port1 to 4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–15 to +35 dBm</td><td>±0.3 dB (Typ.) ±0.5 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –15.0 to +35.0 dBm
Port3, Port4: –15.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –15.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Adjacent Channel Leakage Power Ratio Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
</table>

1.16 Items To Be Replaced Or Deleted for MX887030A/31A/32A/33A/40A/50A

The following table shows the items in the *MX887030A/31A/32A/33A/40A/50A Short Range Wireless Applications Operation Manual* (M-W3617AE) that need to be replaced.

Items in MX887030A/31A/32A/33A/40A/50A Manual to be Replaced or Deleted (1/7)

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
Appendix A.1	A-1	MX887030A Use application
		Before: The MX887030A WLAN 802.11b/g/a/n TX Measurement option are designed for measuring the transmitter of IEEE802.11 b, g, a, n (1X1) HT 20/40MHz radios when this application is installed in MU887000A TRX Test module and using either port 3 or 4. IEEE802.11a, 802.11j ,802.11n 1x1 (5GHz) require the 6GHz option (MU887000A-001)
		After: The MX887030A WLAN 802.11b/g/a/n TX Measurement option are designed for measuring the transmitter of IEEE802.11 b, g, a, n (1X1) HT 20/40MHz radios when this application is installed in MU887001A TRX Test module and using either port 1 to 4. IEEE802.11a, 802.11j ,802.11n 1x1 (5GHz) require the 6GHz option (MU887001A-001)
Appendix A.1	A-2	Electrical characteristic
		Before: Specifications are for Port 3 and 4 unless otherwise stated.
		After: Specifications are for Port 1 to 4 unless otherwise stated.
Appendix A.1	A-2	RF Power Input Setting Range
		Before: –65 to +25 dBm(Port 3/4)
		After –55 to +35 dBm(Port 1 to 4)
Appendix A.1	A-2	RF Power Measurement Accuracy
		Before: (at 20 to 30°C) ±0.7 dB (–30 dBm≤ Level ≤+25 dBm) ±1.0 dB (–50 dBm≤ Level < –30 dBm)
		After: (at 20 to 30°C) ±0.7 dB (–20 dBm≤ Level ≤+35 dBm) ±1.0 dB(–40 dBm≤ Level < –20 dBm)
Appendix A.1	A-3	Spectral profile measurements Input signal measurement range with set RBW (100 kHz)
		Before: –27 to +25 dBm
		After: –17 to +35 dBm

Items in MX887030A/31A/32A/33A/40A/50A Manual to be Replaced or Deleted (2/7)

Section	Page	Detail
Appendix A.1	A-3	Spectral profile measurements Linearity Before: Same as MU887000A Level Linearity port 3/4. ±0.2 dB (0 to –40 dB, ≥–55 dBm) After: Same as MU887000A Level Linearity port 1 to 4. ±0.2 dB (0 to –40 dB, ≥–55 dBm)
Appendix A.1	A-3	EVM Measurement Range Before: –20 to +25 dBm After: –10 to +35 dBm
Appendix A.1	A-3	Residual EVM DSSS Before: Signal Level > –20 dBm, averaged over 20 packets After: Signal Level > –10 dBm, averaged over 20 packets
Appendix A.1	A-3	Residual EVM OFDM Before: Signal Level > –20 dBm, averaged over 20 packets After: Signal Level > –10 dBm, averaged over 20 packets
Appendix A.2	A-9	MX887031A Use application Before: The MX887031A WLAN 802.11ac TX Measurement option are designed for measuring the transmitter of IEEE802.11ac when this application is installed in MU887000A TRX Test module and using either port 3 or 4. IEEE802.11ac require the 6GHz option(MU887000A-001) After: The MX887031A WLAN 802.11ac TX Measurement option are designed for measuring the transmitter of IEEE802.11ac when this application is installed in MU887001A TRX Test module and using either port 1 to 4. IEEE802.11ac require the 6GHz option(MU887001A-001)
Appendix A.2	A-10	Electrical characteristic Before: Specifications are for Port 3 and 4 unless otherwise stated. After: Specifications are for Port 1 to 4 unless otherwise stated.
Appendix A.2	A-10	RF Power Input Setting Range Before: –65 to +25 dBm (Port 3/4) After: –55 to +35 dBm (Port 1 to 4)
Appendix A.2	A-10	RF Power Measurement Accuracy Before: (at 20 to 30°C) ±0.7 dB (–30 dBm≤ Level ≤+25 dBm) ±1.0 dB (–50 dBm≤ Level < –30 dBm) After: (at 20 to 30°C) ±0.7 dB (–20 dBm≤ Level ≤+35 dBm) ±1.0 dB (–40 dBm≤ Level < –20 dBm)

Items in MX887030A/31A/32A/33A/40A/50A Manual to be Replaced or Deleted (3/7)

Section	Page	Detail
Appendix A.2	A-11	Spectral profile measurements Input signal measurement range with set RBW (100 kHz) Before: –27 to +25 dBm After: –17 to +35 dBm
Appendix A.2	A-11	EVM Measurement Range Before: –20 to +25 dBm After: –10 to +35 dBm
Appendix A.2	A-11	Residual EVM ≤ 80 MHz Before: Signal Level > –10 dBm, averaged over 20 packets After: Signal Level > 0 dBm, averaged over 20 packets
Appendix A.3	A-14	MX887032A Use application Before The MX887032A WLAN 802.11p TX Measurement option are designed for measuring the transmitter of IEEE802.11p when this application is installed in MU887000A TRX Test module and using either port 3 or 4. After The MX887032A WLAN 802.11p TX Measurement option are designed for measuring the transmitter of IEEE802.11p when this application is installed in MU887001A TRX Test module and using either port 1 to 4.
Appendix A.3	A-15	Electrical characteristic Before: Specifications are for Port 3 and 4 unless otherwise stated. After: Specifications are for Port 1 to 4 unless otherwise stated.
Appendix A.3	A-15	RF Power Input Setting Range Before: –65 to +25 dBm(Port 3/4) After: –55 to +35 dBm(Port 1 to 4)
Appendix A.3	A-15	RF Power Measurement Accuracy Before: (at 20 to 30°C) ±0.7 dB (–30 dBm≤ Level ≤+25 dBm) ±1.0 dB (–50 dBm≤ Level < –30 dBm) After: (at 20 to 30°C) ±0.7 dB (–20 dBm≤ Level ≤+35 dBm) ±1.0 dB(–40 dBm≤ Level < –20 dBm)
Appendix A.3	A-15	EVM Measurement Range Before: –20 to +25 dBm After: –10 to +35 dBm
Appendix A.3	A-15	Residual EVM OFDM Before: Signal Level > –20 dBm, averaged over 20 packets After: Signal Level > –10 dBm, averaged over 20 packets

Items in MX887030A/31A/32A/33A/40A/50A Manual to be Replaced or Deleted (4/7)

Section	Page	Detail
Appendix A.4	A-17	MX887033A Use application Before: The MX887033A WLAN 802.11ax TX Measurement option are designed for measuring the transmitter of IEEE802.11ax when this application is installed in MU887000A TRX Test module and using either port 3 or 4. IEEE802.11ax (5GHz) require the 6GHz option (MU887000A-001) After: The MX887033A WLAN 802.11ax TX Measurement option are designed for measuring the transmitter of IEEE802.11ax when this application is installed in MU887000A TRX Test module and using either port 1 to 4. IEEE802.11ax (5GHz) require the 6GHz option (MU887001A-001)
Appendix A.4	A-18	Electrical characteristic Before: Specifications are for Port 3 and 4 unless otherwise stated. After: Specifications are for Port 1 to 4 unless otherwise stated.
Appendix A.4	A-18	RF Power Input Setting Range Before: –65 to +25 dBm (Port 3/4) After: –55 to +35 dBm (Port 1 to 4)
Appendix A.4	A-18	RF Power Measurement Accuracy Before: (at 20 to 30°C) ±0.7 dB (–30 dBm≤ Level ≤+25 dBm) ±1.0 dB (–50 dBm≤ Level < –30 dBm) After: (at 20 to 30°C) ±0.7 dB (–20 dBm≤ Level ≤+35 dBm) ±1.0 dB (–40 dBm≤ Level < –20 dBm)
Appendix A.4	A-19	Spectral profile measurements Input signal measurement range with set RBW (100 kHz) Before: –27 to +25 dBm After: –17 to +35 dBm
Appendix A.4	A-19	EVM Measurement Range Before: –20 to +25 dBm After: –10 to +35 dBm

Items in MX887030A/31A/32A/33A/40A/50A Manual to be Replaced or Deleted (5/7)

Section	Page	Detail
Appendix A.4	A-19	Residual EVM ≤ 80 MHz Before: (at 20 to 30°C) Signal Level > –10 dBm, averaged over 20 packets, where each packet is no less than 16 data OFDM symbols long. And for each subcarrier (except Pilots), all data OFDM symbols have same data field pattern. Channel Estimation: FULLPACKET After: (at 20 to 30°C) Signal Level > 0 dBm, averaged over 20 packets, where each packet is no less than 16 data OFDM symbols long. And for each subcarrier (except Pilots), all data OFDM symbols have same data field pattern. Channel Estimation: FULLPACKET
Appendix A.5	A-22	MX887040A Use application Before: The MX887040A Bluetooth TX Measurement option are designed for measuring the transmitter performance of Bluetooth (2.0,3.0,4.0) radios when this application is installed in MU887000A TRX Test module and using either port 3 or 4. After: The MX887040A Bluetooth TX Measurement option are designed for measuring the transmitter performance of Bluetooth (2.0,3.0,4.0) radios when this application is installed in MU887001A TRX Test module and using either port 1 to 4.
Appendix A.5	A-23	Electrical characteristic Before: Specifications are for Port 3 and 4 unless otherwise stated. After: Specifications are for Port 1 to 4 unless otherwise stated.
Appendix A.5	A-23	RF Power Input Setting Range Before: –65 to +25 dBm (Port 3/4) After: –55 to +35 dBm (Port 1 to 4)
Appendix A.5	A-23	RF Power Measurement Accuracy Before: (at 20 to 30°C) ±0.7 dB (–30 dBm≤ Level ≤+25 dBm) ±1.0 dB (–50 dBm≤ Level < –30 dBm) After: (at 20 to 30°C) ±0.7 dB (–20 dBm≤ Level ≤+35 dBm) ±1.0 dB (–40 dBm≤ Level< –20 dBm)
Appendix A.5	A-23	EDR relative transmit power Power measurement rage Before: –35 to +25 dBm After: –25 to +35 dBm

Items in MX887030A/31A/32A/33A/40A/50A Manual to be Replaced or Deleted (6/7)

Section	Page	Detail
Appendix A.5	A-24	DEVM Measurement Range Before: –20 to +25 dBm After: –10 to +35 dBm
Appendix A.5	A-24	GFSK Modulation Accuracy Before: Signal Level > –20 dBm, averaged over 10 packets After: Signal Level > –10 dBm, averaged over 10 packets
Appendix A.5	A-24	Initial Carrier Frequency tolerance Input signal range Before: –35 to +25 dBm After: –25 to +35 dBm
Appendix A.5	A-24	Carrier-Frequency drift Input signal range Before: –35 to +25 dBm After: –25 to +35 dBm
Appendix A.5	A-24	EDR Carrier frequency stability Accuracy Before: Signal Level > –20 dBm, averaged over 10 packets After: Signal Level > –10 dBm, averaged over 10 packets
Appendix A.5	A-25	BLE Modulation characteristics Input signal range Before: –35 to +25 dBm After: –25 to +35 dBm
Appendix A.5	A-25	BLE Modulation characteristics Accuracy Before: Signal Level > –20 dBm, averaged over 10 packets After: Signal Level > –10 dBm, averaged over 10 packets
Appendix A.5	A-25	BLE Carrier frequency offset and drift Input signal range Before: –35 to +25 dBm After: –25 to +35 dBm
Appendix A.5	A-25	BLE Carrier frequency offset and drift Accuracy Before: Signal Level > –20 dBm, averaged over 10 packets After: Signal Level > –10 dBm, averaged over 10 packets
Appendix A.6	A-27	MX887050A Use application Before: The MX887050A are designed for measuring the transmitter power and frequency performance of Bluetooth (2.0,3.0,4.0) and IEEE802.11 b, g, a, n(1X1) HT 20/40MHz radios when this application is installed in MU887000A TRX Test module and using either port 3 or 4. After: The MX887050A are designed for measuring the transmitter power and frequency performance of Bluetooth (2.0,3.0,4.0) and IEEE802.11 b, g, a, n(1X1) HT 20/40MHz radios when this application is installed in MU887001A TRX Test module and using either port 1 to 4.

Items in MX887030A/31A/32A/33A/40A/50A Manual to be Replaced or Deleted (7/7)

Section	Page	Detail
Appendix A.6	A-28	Electrical characteristic Before: Specifications are for Port 3 and 4 unless otherwise stated. After: Specifications are for Port 1 to 4 unless otherwise stated.
Appendix A.6	A-28	RF Power (CW and continuously Modulated) Input Setting Range Before: –65 to +25 dBm(Port 3/4) After: –55 to +35 dBm(Port 1 to 4)
Appendix A.6	A-28	Measurement Accuracy Before: After calibration (400 MHz ≤ Frequency ≤ 3800 MHz) 10 ≤ Temperature ≤40°C ±0.7 dB (–30 dBm≤ Level ≤+ 25 dBm) ±0.9 dB (–55 dBm≤ Level < –30 dBm) ±1.1 dB (–65 dBm≤ Level < –55 dBm) (3800 MHz ≤ Frequency ≤ 6000 MHz) 20 ≤ Temperature ≤30°C ±0.7 dB (–30 dBm≤ Level ≤+25 dBm) ±0.9 dB (–55 dBm≤ Level < –30 dBm) ±1.1 dB (–65 dBm≤ Level < –55 dBm) After: (Subject to deletion)
Appendix A.6	A-28	Linearity Before: CW, RBW = 100 kHz ±0.2 dB (0 to –40 dB, ≥ –55 dBm) After: (Subject to deletion)
Appendix A.6	A-28	Frequency (CW and continuously Modulated) Input signal range Before: –35 to +25 dBm (Port 3/4) After: –25 to +35 dBm (Port 1 to 4)

1.17 Items To Be Replaced Or Deleted for MX887060A

The following table shows the items in the *MX887060A IEEE 802.15.4 TX Measurement Operation Manual* (M-W3744AE) that need to be replaced.

Items in MX887060A Manual to be Replaced (1/3)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>-----</td><td>All</td><td>Before: MU887000A
After: MU887001A</td></tr>
<tr><td>5.3.3</td><td>5-8</td><td>Output EVM (4) Procedure 4 Test Port3
Before: Output Level: –0.9 dBm
Input Level: +25 dBm
After: Output Level: –10.9 dBm
Input Level: +35 dBm</td></tr>
<tr><td>5.3.4</td><td>5-9</td><td>Tx Power measurement accuracy (CW) (1) Test specifications
Before: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–25 dBm≤, ≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–65 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table>
After: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–25 dBm≤, ≤+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–55 dBm≤, <–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–65 dBm≤, <–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>5.3.5</td><td>5-11</td><td>Frequency/Modulation measurement (1) Test specifications
Before: Test Port3/4
Input Level:–30 dBm≤,≤+25 dBm
After: Test Port3/4
Input Level:–30 dBm≤,≤+35 dBm</td></tr>
<tr><td>5.3.7</td><td>5-15</td><td>Output EVM Output EVM
Before: EVM (%) Test Port3
MU887000A Output Level: –0.9 dBm
After: EVM (%) Test Port3
MU887001A Output Level: –10.9 dBm</td></tr>
</table>

Items in MX887060A Manual to be Replaced (2/3)

Section	Page	Detail
5.3.7	5-17	Tx Power measurement accuracy (CW) (continued) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.17
		After: MU887001A Input Level:–10 dBm Measurement Accuracy (dB) Lo Limit: –0.5 Hi Limit: +0.5 Measurement uncertainty: ±0.15
5.3.7	5-17	Tx Power measurement accuracy (CW) (continued) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –55 dBm Measurement Accuracy (dB) Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14
		After: MU887001A Input Level: –55 dBm Measurement Accuracy (dB) Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.13
5.3.7	5-17	Tx Power measurement accuracy (CW) (continued) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –65 dBm Measurement Accuracy (dB) Lo Limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.14
		After: MU887001A Input Level: –65 dBm Measurement Accuracy (dB) Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.13

Items in MX887060A Manual to be Replaced (3/3)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement Input Level accuracy</td></tr>
<tr><td>Before: Port1, Port2: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.) ±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table>
Port3, Port4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
<tr><td>After: Port1 to 4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.) ±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –30.0 to +35.0 dBm
Port3, Port4: –30.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –30.0 to +35.0 dBm</td></tr>
</table>

1.18 Items To Be Replaced for MX887061A

The following table shows the items in the *MX887061A Z-Wave TX Measurement Operation Manual* (M-W3789AE) that need to be replaced.

Items in MX887061A Manual to be Replaced (1/3)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>-----</td><td>All</td><td>Before: MU887000A</td></tr>
<tr><td></td><td></td><td>After: MU887001A</td></tr>
<tr><td rowspan="2">5.3.3</td><td rowspan="2">5-7</td><td>Tx Power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–25 dBm≤,≤+25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–55 dBm≤,<–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–65 dBm≤,<–55 dBm</td><td>10 to 40°C</td></tr>
</table>
After: Test Port3/4
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–25 dBm≤,≤+35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–55 dBm≤,<–25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–65 dBm≤,<–55 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td rowspan="3">5.3.4</td><td rowspan="3">5-9</td><td>Frequency error measurement (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input level: –30 dBm ≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input level: –30 dBm ≤, ≤+35 dBm</td></tr>
</table>

Items in MX887061A Manual to be Replaced (2/3)

Section	Page	Detail
5.3.6	5-14	Tx Power measurement accuracy (CW) (continued) Tx Power Measurement accuracy Port3/4
		Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.17
		After: MU887001A Input Level:–10 dBm Measurement Accuracy (dB) Lo Limit: –0.5 Hi Limit: +0.5 Measurement uncertainty: ±0.15
5.3.6	5-14	Tx Power measurement accuracy (CW) (continued) Tx Power Measurement accuracy Port3/4
		Before: MU887000A Input Level: –55 dBm Measurement Accuracy (dB) Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14
		After: MU887001A Input Level: –55 dBm Measurement Accuracy (dB) Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.13
5.3.6	5-14	Tx Power measurement accuracy (CW) (continued) Tx Power Measurement accuracy Port3/4
		Before: MU887000A Input Level: –65 dBm Measurement Accuracy (dB) Lo Limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.14
		After: MU887001A Input Level: –65 dBm Measurement Accuracy (dB) Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.13

Items in MX887061A Manual to be Replaced (3/3)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement　Input Level Range</td></tr>
<tr><td>Before:　Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After:　Port1 to 4: –65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-1</td><td>Tx Power Measurement　Input Level accuracy</td></tr>
<tr><td>Before:　Port1, Port2: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.) ±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table>
Port3, Port4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
<tr><td>After:　Port1 to 4: After calibration, 10 to 40°C
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–25 to +35 dBm</td><td>±0.3 dB (Typ.) ±0.5 dB</td></tr>
<tr><td>–55 to –25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–65 to –55 dBm</td><td>±0.9 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-2</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before:　Port1, Port2: –30.0 to +35.0 dBm
Port3, Port4: –30.0 to +25.0 dBm</td></tr>
<tr><td>After:　Port1 to 4: –30.0 to +35.0 dBm</td></tr>
</table>

1.19 Items To Be Replaced for MX887065A

The following table shows the items in the *MX887065A Category M FDD Uplink TX Measurement Operation Manual* (M-W3936AE) that need to be replaced.

Items in MX887065A Manual to be Replaced or Deleted (1/6)

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
4.2.1	4-31	:ROUTe:PORT:CONNect:DIRection Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.
4.2.2	4-62	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.2	4-68	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887065A Manual to be Replaced or Deleted (2/6)

Section	Page	Detail	
5.2.1	5-27	PORT Details	
		Before:	Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After:	Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.
5.2.2	5-59	ILVL Parameter level Range	
		Before:	–65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.2	5-77	OLVL Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.

Items in MX887065A Manual to be Replaced or Deleted (3/6)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="6">6.4.1</td><td rowspan="6">6-11</td><td>Tx Power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
(600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm ≤, ≤ +25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm ≤, < –20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm ≤, < –50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–20 dBm ≤, ≤ +35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–50 dBm ≤, < –20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–60 dBm ≤, < –50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>Before: Test Port3/4
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm ≤, ≤ +25 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm ≤, < –20 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm ≤, < –50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm ≤, ≤ +35 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm ≤, < –20 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm ≤, < –50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
<tr><td rowspan="3">6.4.2</td><td rowspan="3">6-13</td><td>Frequency/Modulation measurement (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input level: –40 dBm ≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input level: –40 dBm ≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">6.4.4</td><td rowspan="3">6-17</td><td>Adjacent Channel Leakage Power Ratio (1) Testing specifications</td></tr>
<tr><td>Before: Test Port3/4 Input level range: –10 dBm ≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4 Input level range: –10 dBm ≤, ≤+35 dBm</td></tr>
</table>

Items in MX887065A Manual to be Replaced or Deleted (4/6)

Section	Page	Detail
6.4.5	6-27	Tx Power measurement accuracy (CW) (Cont'd) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.17 Frequency (MHz): 4000, 4200 Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.28
		After: MU887001A Input Level: –10 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.5 Hi Limit: +0.5 Measurement uncertainty: ±0.15 Frequency (MHz): 4000, 4200 Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.33
6.4.5	6-27	Tx Power measurement accuracy (CW) (Cont'd) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14 Frequency (MHz): 4000, 4200 Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.20
		After: MU887001A Input Level: –50 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.14 Frequency (MHz): 4000, 4200 Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.33
6.4.5	6-28	Tx Power measurement accuracy (CW) (Cont'd) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.14 Frequency (MHz): 4000, 4200 Lo Limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.20
		After: MU887001A Input Level: –60 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14 Frequency (MHz): 4000, 4200 Lo Limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.33

Items in MX887065A Manual to be Replaced or Deleted (5/6)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-3</td><td>Tx Power Measurement Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="2">Appendix A</td><td rowspan="2">A-3</td><td>Tx Power measurement accuracy</td></tr>
<tr><td>Before: Port1, Port2:
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.3 dB (Typ.)</td></tr>
</table>
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 10 to 40°C to)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.5 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±0.9 dB</td></tr>
</table>
3800 MHz < Frequency ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
Port3, Port4:
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table>
3800 MHz< Frequency ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
</table>

Items in MX887065A Manual to be Replaced or Deleted (6/6)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>Appendix A</td><td>A-3</td><td>Tx Power Measurement Accuracy (Cont'd)
After: Port1 to 4:
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.3 dB (Typ.)</td></tr>
</table>
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.5 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±0.9 dB</td></tr>
</table>
3800 MHz < Frequency ≤ 4200 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
<tr><td>–60 to –50 dBm</td><td>±1.1 dB</td></tr>
</table></td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-4</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –40.0 to +35.0 dBm
Port3, Port4: –40.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –40.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-4</td><td>Occupied Bandwidth Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-4</td><td>Adjacent Channel Leakage Power Ratio Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-4</td><td>Spectrum Emission Mask (SEM) Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –10.0 to +35.0 dBm
Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
</table>

1.20 Items To Be Replaced for MX887067A

The following table shows the items in the *MX887067A NB-IoT Uplink TX Measurement Operation Manual* (M-W3937AE) that need to be replaced.

Items in MX887067A Manual to be Replaced or Deleted (1/6)

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
4.2.1	4-26	:ROUTe:PORT:CONNect:DIRection Details
		Before: Both Test Port1 and Test Port2 can be set to input and output simultaneously Test Port3 and Test Port4 can be set to either input or output at one time.
		After: Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.
4.2.2	4-31	:CONFigure:CELLular:GENerator:RFSettings:LEVel Parameter <level> Range
		Before: –130.0 to –10.0 dBm (Port1/Port2) –120.0 to 0.0 dBm (Port3/Port4)
		After: –130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.
4.2.2	4-34	:CONFigure:CELLular:MEASurement:RFSettings:LEVel Parameter <level> Range
		Before: –65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After: –65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details
		Before: When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After: When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.

Items in MX887067A Manual to be Replaced or Deleted (2/6)

Section	Page	Detail	
5.2.1	5-22	PORT Details	
		Before:	Both Test Port1 and Test Port2 can be set to input and output simultaneously. Test Port3 and Test Port4 can be set to either input or output at one time.
		After:	Test Port1, Test Port2, Test Port3 and Test Port4 can be set to both of Input and Output.
5.2.2	5-49	ILVL Parameter level Range	
		Before:	–65.0 to +35.0 dBm (Port 1/Port 2) –65.0 to +25.0 dBm (Port 3/Port 4)
		After:	–65.0 to +35.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –60.0 to +40.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –60.0 to +40.0 dBm.
5.2.2	5-70	OLVL Parameter level Range	
		Before:	–130.0 to –10.0 dBm (Port 1/Port 2) –120.0 to 0.0 dBm (Port 3/Port 4)
		After:	–130.0 to –10.0 dBm (Port1/Port2/Port3/Port4)
		Details	
		Before:	When the cable loss is 5 dB, the Port1/Port2 setting range is –135.0 to –15.0 dBm.
		After:	When the cable loss is 5 dB, the Port1/Port2/Port3/Port4 setting range is –135.0 to –15.0 dBm.

Items in MX887067A Manual to be Replaced or Deleted (3/6)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="5">6.4.1</td><td rowspan="5">6-11</td><td>Tx Power measurement accuracy (CW) (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
(600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm ≤, ≤ +25 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm ≤, < –20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm ≤, < –50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.5 dB</td><td>–20 dBm ≤, ≤ +35 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.7 dB</td><td>–50 dBm ≤, < –20 dBm</td><td>10 to 40°C</td></tr>
<tr><td>±0.9 dB</td><td>–60 dBm ≤, < –50 dBm</td><td>10 to 40°C</td></tr>
</table></td></tr>
<tr><td>Before: Test Port3/4
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm ≤, ≤ +25 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm ≤, < –20 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm ≤, < –50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
<tr><td>After: Test Port3/4
(3800 MHz < Frequency ≤ 4200 MHz)
<table>
<tr><th>Measurement Accuracy</th><th>Input Level</th><th>Temperature</th></tr>
<tr><td>±0.7 dB</td><td>–20 dBm ≤, ≤ +35 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±0.9 dB</td><td>–50 dBm ≤, < –20 dBm</td><td>20 to 30°C</td></tr>
<tr><td>±1.1 dB</td><td>–60 dBm ≤, < –50 dBm</td><td>20 to 30°C</td></tr>
</table></td></tr>
<tr><td rowspan="3">6.4.2</td><td rowspan="3">6-14</td><td>Frequency/Modulation measurement (1) Test specifications</td></tr>
<tr><td>Before: Test Port3/4
Input level: –40 dBm ≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4
Input level: –40 dBm ≤, ≤+35 dBm</td></tr>
<tr><td rowspan="3">6.4.4</td><td rowspan="3">6-18</td><td>Adjacent Channel Leakage Power Ratio (1) Testing specifications</td></tr>
<tr><td>Before: Test Port3/4 Input level range: –10 dBm ≤, ≤+25 dBm</td></tr>
<tr><td>After: Test Port3/4 Input level range: –10 dBm ≤, ≤+35 dBm</td></tr>
</table>

Items in MX887067A Manual to be Replaced or Deleted (4/6)

Section	Page	Detail
6.4.5	6-28	Tx Power measurement accuracy (CW) (Cont'd) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –10 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.17 Frequency (MHz): 4000, 4200 Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.28
		After: MU887001A Input Level: –10 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.5 Hi Limit: +0.5 Measurement uncertainty: ±0.15 Frequency (MHz): 4000, 4200 Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.33
6.4.5	6-28	Tx Power measurement accuracy (CW) (Cont'd) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –50 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14 Frequency (MHz): 4000, 4200 Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.20
		After: MU887001A Input Level: –50 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.7 Hi Limit: +0.7 Measurement uncertainty: ±0.14 Frequency (MHz): 4000, 4200 Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.33
6.4.5	6-29	Tx Power measurement accuracy (CW) (Cont'd) Tx Power measurement accuracy Port3/4
		Before: MU887000A Input Level: –60 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.14 Frequency (MHz): 4000, 4200 Lo Limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.20
		After: MU887001A Input Level: –60 dBm Measurement Accuracy (dB) Frequency (MHz): 600 to 3800 Lo Limit: –0.9 Hi Limit: +0.9 Measurement uncertainty: ±0.14 Frequency (MHz): 4000, 4200 Lo Limit: –1.1 Hi Limit: +1.1 Measurement uncertainty: ±0.33

Items in MX887067A Manual to be Replaced or Deleted (5/6)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-3</td><td>RF Power Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –65.0 to +35.0 dBm
Port3, Port4: –65.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –65.0 to +35.0 dBm</td></tr>
<tr><td rowspan="2">Appendix A</td><td rowspan="2">A-3</td><td>RF Power Measurement accuracy</td></tr>
<tr><td>Before: Port1, Port2:
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 20 to 30°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.3 dB (Typ.)</td></tr>
</table>
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 10 to 40°C to)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +35 dBm</td><td>±0.5 dB</td></tr>
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3800 MHz < Frequency ≤ 4200 MHz
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<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
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</table>
Port3, Port4:
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 10 to 40°C)
<table>
<tr><th>Input Level</th><th>Measurement Accuracy</th></tr>
<tr><td>–20 to +25 dBm</td><td>±0.7 dB</td></tr>
<tr><td>–50 to –20 dBm</td><td>±0.9 dB</td></tr>
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Items in MX887067A Manual to be Replaced or Deleted (6/6)

<table>
<tr><th>Section</th><th>Page</th><th>Detail</th></tr>
<tr><td>Appendix A</td><td>A-3</td><td>
RF Power Measurement Accuracy (Cont'd)
After: Port1 to 4:
600 MHz ≤ Frequency ≤ 2700 MHz, 3400 MHz ≤ Frequency ≤ 3800 MHz
(After calibration, 20 to 30°C)
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<tr><td rowspan="3">Appendix A</td><td rowspan="3">A-4</td><td>Modulation Analysis Input Level Range</td></tr>
<tr><td>Before: Port1, Port2: –40.0 to +35.0 dBm
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Port3, Port4: –10.0 to +25.0 dBm</td></tr>
<tr><td>After: Port1 to 4: –10.0 to +35.0 dBm</td></tr>
</table>

1.21 Items To Be Replaced for MV887011A/12A/13A/14A/15A/16A/17A/65A/67A

The following table shows the items in the *Waveform File for Cellular Application Operation Manual* (M-W3621AE) that need to be replaced.

Items in Waveform File for Cellular Application Manual to be Replaced

Section	Page	Detail
-----	All	Before: MU887000A
		After: MU887001A
1.3	1-5	Table 1.3-3 Max. output level
		Before: –12 dBm (TestPort 1/2, Frequency ≤ 3800 MHz) –20 dBm (TestPort 1/2, 3800 MHz < Frequency) –2 dBm (TestPort 3/4, Frequency ≤ 3800 MHz) –10 dBm (TestPort 3/4, 3800 MHz < Frequency)
		After: –12 dBm (TestPort 1 to 4, Frequency ≤ 3800 MHz) –20 dBm (TestPort 1 to 4, 3800 MHz < Frequency)
1.3	1-5	Table 1.3-4 Max. output level
		Before: –12 dBm (TestPort 1/2, Frequency ≤ 3800 MHz) –20 dBm (TestPort 1/2, 3800 MHz < Frequency) –2 dBm (TestPort 3/4, Frequency ≤ 3800 MHz) –10 dBm (TestPort 3/4, 3800 MHz < Frequency)
		After: –12 dBm (TestPort 1 to 4, Frequency ≤ 3800 MHz) –20 dBm (TestPort 1 to 4, 3800 MHz < Frequency)
1.3	1-6	Table 1.3-8 Max. output level
		Before: –12 dBm (TestPort 1/2, Frequency ≤ 3800 MHz) –20 dBm (TestPort 1/2, 3800 MHz < Frequency) –2 dBm (TestPort 3/4, Frequency ≤ 3800 MHz) –10 dBm (TestPort 3/4, 3800 MHz < Frequency)
		After: –12 dBm (TestPort 1 to 4, Frequency ≤ 3800 MHz) –20 dBm (TestPort 1 to 4, 3800 MHz < Frequency)
1.3	1-6	Table 1.3-9 Max. output level
		Before: –12 dBm (TestPort 1/2, Frequency ≤ 3800 MHz) –20 dBm (TestPort 1/2, 3800 MHz < Frequency) –2 dBm (TestPort 3/4, Frequency ≤ 3800 MHz) –10 dBm (TestPort 3/4, 3800 MHz < Frequency)
		After: –12 dBm (TestPort 1 to 4, Frequency ≤ 3800 MHz) –20 dBm (TestPort 1 to 4, 3800 MHz < Frequency)