Japan Radio Law TEST REPORT

Urocomm International Limited

LTE USB WIFI Stick

Model No.: Wai-Link

Prepared for : Urocomm International Limited
SUITE 1601,16TH FLOOR CHINACHEM HOLLYWOOD CENTRE 1-13 HOLLYWOOD ROAD CENTRAL HK

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Testing Laboratory
1418

Report Number : ACS-P26120
Date of Test : Jun.24~25, 2026
Date of Report : Aug.12,026

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TEST REPORT VERIFICATION

Applicant	:	Urocomm International Limited
Manufacturer	:	Urocomm International Limited
Product	:	LTE USB WIFI Stick
Model No.	:	Wai-Link
Test Voltage	:	DC 5V

Measurement Standards Used:

証明規則第 2 条第 1 項第 19 号に掲げる無線設備 別表第四十三
2.4GHz 帯高度化小電力データ通信システム(2,400～2,483.5MHz)

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. The measurement results were contained in this test report and Audix Technology (Shenzhen) Co., Ltd was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with. Article 49-20 and the relevant Articles in Ordinance Regulating Radio Equipment, and the device has been measured in accordance with the test method given in MIC notice No.88 Appendix No.43, or surpasses or is equal to the test method.

This report applies to single evaluation of one sample of above mentioned product and shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Jun.24~25, 2026 Date of Report: Aug.12,026

Prepared by : Linda Tsai
Linda Tsai / Assistant

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AUDIX 信華科技（深圳）有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章
Stamp only for EMC Dept. Report

Approved & Authorized Signer : Signature: Sunny Lu
Sunny Lu / Manager

REPORT REVISION HISTORY

Edition No.	Revision	Issue Date	Report No.
Original	Initial issue of report	Aug.12,026	ACS-P26120

複製禁止

1. SUMMARY OF MEASUREMENTS AND RESULTS

1.1.Summary of test result

CLAUSE	TEST PARAMETER	RESULTS
Transmitter Parameters		
3.2 (2)	Antenna Power	**PASS**
3.2 (3)	Tolerances for Antenna Power	**PASS**
3.2 (4)	Frequency Tolerance	**PASS**
3.2 (5)	Transmission Rate	**N/A**
3.2 (6)	Spurious Emissions	**PASS**
3.2 (7)	Occupied Frequency Bandwidth	**PASS**
3.2 (8)	Spread-spectrum Bandwidth / Spread Factor	**PASS** Note 1
3.2 (9)	Number of Carriers	**N/A**
3.2 (10)	Dwell Time	**N/A**
Receiver Parameters		
3.3 (1)	Secondary Radiated Emissions	**PASS**
Other Parameters		
3.4.1	Interference Prevention Function	**PASS**
3.4.2	Construction Protection	**PASS**
3.4.3	Carrier sense function	**PASS**

Note 1: Only Applicable for DSSS.
Note 2: N/A is an abbreviation for Not Applicable.
Note 3: Measurement uncertainty affection to the result is not considered, the EUT is technically compliant with standard requirements.

2. GENERAL INFORMATION

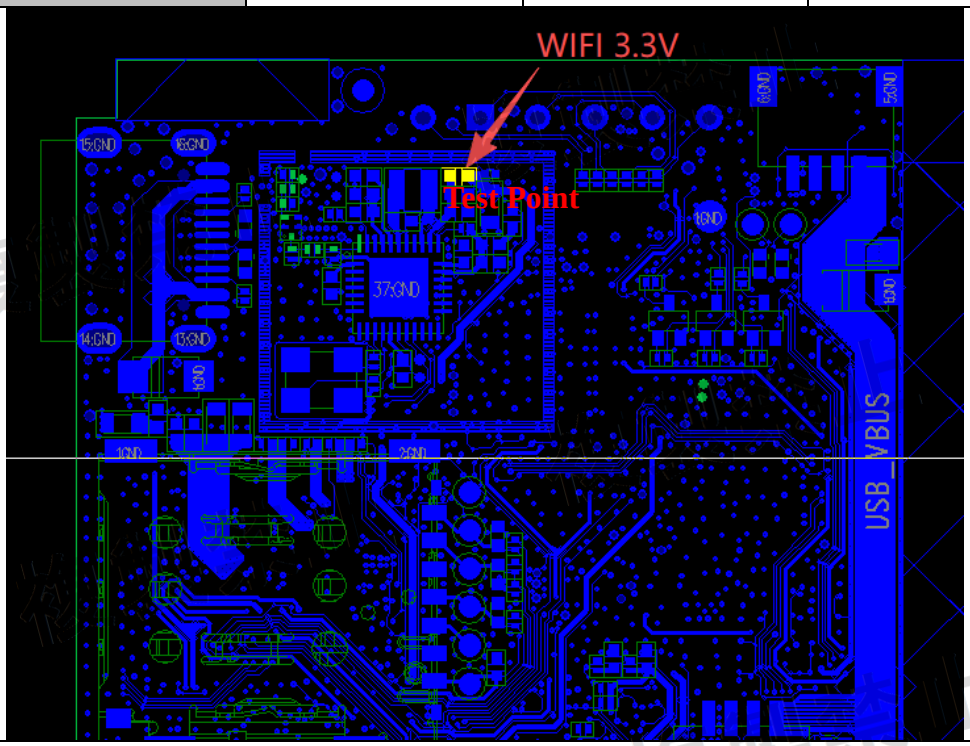
2.1.Description of Equipment Under Test

Applicant	Urocomm International Limited
Applicant Address	SUITE 1601,16TH FLOOR CHINACHEM HOLLYWOOD CENTRE 1-13 HOLLYWOOD ROAD CENTRAL HK
Manufacturer	Urocomm International Limited
Manufacturer Address	SUITE 1601,16TH FLOOR CHINACHEM HOLLYWOOD CENTRE 1-13 HOLLYWOOD ROAD CENTRAL HK
Factory	Shenzhen Sallin Electronic & Technology CO.,LTD.
Factory Address	Floor 4 and Floor 6, Building B7, Yintian Industrial Zone, Yantian Community,Xixiang Street, Baoan District, Shenzhen
Product	LTE USB WIFI Stick
Model No.	Wai-Link
Sample Type	Prototype production
Date of Receipt	Jun.08, 2026
Date of Test	Jun.24~25, 2026

2.2.Feature of Equipment Under Test

Product Feature & Specification			
Product	LTE USB WIFI Stick		
Model No.	Wai-Link		
Power Source	☐ Commercial Power	AC V	
	☒ External Power Source	DC 5V	
	☐ Li-ion polymer Battery	DC V	
	☐ UM battery	DC V	
WLAN			
WLAN Support Category/ Frequency Range	☒ Article 2-1-19	/2400MHz ~ 2483.5MHz	
	☐ Article 2-1-19-2	/2471MHz ~ 2497MHz	
	☐ Article 2-1-19-3	/5150MHz ~ 5250MHz	
	☐ Article 2-1-19-3	/5250MHz ~ 5350MHz	
	☐ Article 2-1-19-3	/5470MHz ~ 5730MHz	
Type of Modulation	☒ Direct Spreading (DS) ☒ Orthogonal frequency-division multiplexing (OFDM) ☐ Frequency Hopping (FH)		
RF Technology	☐ 802.11a	☒ 802.11b	☒ 802.11g
	☒ 802.11n-HT20	☐ 802.11ac-VHT20	☒ 802.11ax-HE20
	☒ 802.11n-HT40	☐ 802.11ac-VHT40	☒ 802.11ax-HE40
	☐ 802.11ac-VHT80	☐ 802.11ax-HE80	
	☐ 802.11ac-VHT160	☐ 802.11ax-HE160	
RU Mode	Not Support		
Antenna Information	Antenna Type: PIFA Antenna		
	Peak Gain: 1.10dBi		

Operating Voltage	5V	4.5V	5.5V
Measuring Voltage	3.3V	3.299V	3.299V
Tolerance	-	-0.03%	-0.03%



NOTE: When EUT be operated at ±10% from the normal supply voltage, the supply voltage of RF part was varied within ±1%. All test cases were done under the normal supply voltage.

2.3.Tested Supporting System Details

N/A

2.4.Block Diagram of Test Setup

(EUT: LTE USB WIFI Stick)

2.5.Test Information

A special test software was used to control EUT work in Continuous TX/RX mode, and select test channel, mode and data rate.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH7	2442
	1	High: CH13	2472
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH7	2442
	6	High: CH13	2472
IEEE 802.11n HT20	6.5	Low :CH1	2412
	6.5	Middle: CH7	2442
	6.5	High: CH13	2472
IEEE 802.11n HT40	13.5	Low :CH3	2422
	13.5	Middle: CH7	2442
	13.5	High: CH11	2462
IEEE 802.11ax HE20	MCS0	Low :CH1	2412
	MCS0	Middle: CH7	2442
	MCS0	High: CH13	2472
IEEE 802.11ax HE40	MCS0	Low :CH3	2422
	MCS0	Middle: CH7	2442
	MCS0	High: CH11	2462
Note: After exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.			

2.6.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date	Calibration Body	Cal Method (Note)
1.	Spectrum Analyzer	Agilent	N9030A	MY53311015	Sep.15,25	Sep.14,26	CCIC	c)
2.	Attenuator(10dB)	Agilent	8491B	MY39269201	Mar.03,26	Mar.02,27	CCIC	c)
3.	Voltage &Current Meter	FLUKE	15B PRO	60665932WS	Sep.17,25	Sep.18,26	CCIC	d)

Note 1: Calibration Method

a): Calibration conducted by the National Institute of Information and Communications Technology～ NICT～ or a designated calibration agency under Article 102-18 paragraph (1)～ TELEC Engeneering Center, Intertek Japan K.K., Keysight Technologies, Inc～.

b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)～Japan Calibration Service Syste～

c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)～ TELEC Engeneering Center, Intertek Japan K.K., Keysight Technologies, Inc～.

d): Calibration conducted by using other equipment that listed above from **a)** to **c)**

Note 2: CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd
Addr : ShengHui Hongxing Chuangzhi Square, Tongren Road, TianliaoCommunity, Yutang Street, Guangming District, Shenzhen

2.7.Description of Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Kefeng Road, Science & Technology Park, Nanshan District , Shenzhen, Guangdong, China
RF Anechoic Chamber	:	Dimensions are: [L]10m × [W]5.5m × [H]5m
EMC Lab.	:	Certificated by FCC, USA Designation No.: CN5022 Valid Date: Mar.31, 2027 Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2027 Accredited by TAF, Taiwan Registration No: 1418 Valid Date: Nov.30, 2026

2.8.Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Radiated Spurious Emission test	±3.7dB(30MHz-1000MHz)
	±3.3dB(1GHz-26.5GHz)
Uncertainty for Conduction Spurious emission test	±2.0dB
Uncertainty for Output power test	±0.8dB
Uncertainty for Frequency range test	$\pm 2.0 \times 10^{-7}$
Uncertainty for Bandwidth test	±4.6 %
Uncertainty for DC power test	±0.1%
Uncertainty for test site temperature and humidity	±0.6℃
	±3%

3. MEASUREMENTS OF TRANSMITTER PARAMETERS

3.1. Antenna Power

3.1.1. Limit

Item	Limits
Antenna Power Density	≦10mW/MHz when OBW≦26MHz (OFDM,DS from 2400~2483.5MHz)
	≦5mW/MHz when 26MHz＜OBW≦40MHz (OFDM,DS from 2400~2483.5MHz)
	≦10mW (Other from 2400~2483.5MHz)
Antenna Power Error	≦20% (Base on manufacturer declare antenna power density)
Antenna Gain	Gain > 2.14dBi Transmitting Angle Width ≤ (360/A) a. FH, FH+DS, FH+OFDM A=EIRP(mW/MHz)/(4.91mW/MHz) b. DS, OFDM with OBW ≤ 26MHz A=EIRP(mW/MHz)/(16.37mW/MHz) c. OFDM with OBW > 26MHz A=EIRP(mW/MHz)/(8.18mW/MHz)

3.1.2. Measuring Instruments

See list of measuring instruments of the 2.6 section.

3.1.3. Test Procedures

1. Connect the UUT to the spectrum analyser and use the following settings:
   - Centre Frequency: The centre frequency of the channel under test
   - RBW: 1 MHz
   - VBW: 3 MHz
   - Frequency Span: 2 × Nominal Bandwidth (e.g. 40 MHz for a 20 MHz channel)
   - Detector Mode: Peak
   - Trace Mode: Max Hold
2. When the trace is complete, find the peak value of the power envelope and record the frequency.
3. Make the following changes to the settings of the spectrum analyser:
   - Centre Frequency: Equal to the frequency recorded in step 2
   - Frequency Span: 3 MHz
   - RBW: 1MHz
   - VBW: 1MHz
   - Sweep Time: 1 minute
   - Detector Mode: RMS
   - Trace Mode: Max Hold
4. ①When the trace is complete, the trace shall be captured using the "Hold" or "View" option on the spectrum analyser.
   ②Find the peak value of the trace and place the analyser marker on this peak. This level is recorded as the highest mean power (Power Density) D in a 1 MHz band.
   ③Alternatively, where a spectrum analyser is equipped with a function to measure spectral Power Density, this function may be used to display the Power Density D in dBm / MHz.
   ④In case of conducted measurements on smart antenna systems operating in a mode with multiple transmit chains active simultaneously, the Power Density of each transmit chain shall be measured separately to calculate the total Power Density (value D in dBm / MHz) for the UUT.

3.1.4. Test Results

Please refer to Appendix B and C.

3.2.Frequency Tolerance

3.2.1. Limit

Item	Limits
Frequency Tolerance	±50ppm

3.2.2. Measuring Instruments

See list of measuring instruments of the 2.6 section.

3.2.3. Test Procedure

☒ WLAN 2.4GHz	☐ WLAN 2.4GHz
a.Frequency accuracy of instrument shall be less than 10% of limits tolerance (5ppm). b.Setting of SA is following as: RBW: 10kHz / VBW: 10kHz. c.The frequency tolerance test case is directly measured using spectrum analyzer. Then the frequency error formula is $(fc-f)/f\times10^{-6}$ ppm and the limit is less than ±50ppm.	a.Let the DUT transmit at Low/ Mid/ High channel with wave. b.Setting of SA is following as: RBW: 100kHz/ VBW: 300kHz. c.Use the peak search function of the SA get the max peak point. d. Down 10dB from the max peak point get the display level. e. The display level cross with the trace at Lowest Frequency fa and Highest Frequency fb. f. Get the test Result Fc=(fa+fb)/2. error formula is $(fc-f)/f\times10^{-6}$ ppm and the limit is less than ±50ppm.

3.2.4. Test Setup

See clause 2.4 for block diagram of test setup.

3.2.5. Test Results

Please refer to Appendix B and C.

3.3. Occupied Bandwidth and Spread-spectrum Bandwidth / Spread Factor Measurement

3.3.1. Limit

Item	Limits
Occupied Bandwidth	DS≦26MHz; Others≦26MHz OFDM (For BW=20MHz)≦40MHz OFDM (For BW=40MHz)≦40MHz

3.3.2. Measuring Instruments

See list of measuring instruments of the 2.6 section.

3.3.3. Test Procedure

1. Setting of SA is following as: RBW: 100KHz / VBW: 300kHz
   Sweep Mode: Continuous sweep
   Detect mode: Positive peak
   Trace mode: Max hold.
2. EUT have transmitted each modulation signal and fixed channelize (For DSSS or OFDM Device).
3. SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz(For DSSS Device) or 40MHz (For OFDM Device).

3.3.4. Test Setup

See clause 2.4 for block diagram of test setup.

3.3.5. Test Results

Please refer to Appendix B and C.

3.4.Transmitter Spurious Emissions (Conducted)

3.4.1. Limit

Item	Limits
Tx Spurious Emission	≦2.5μW(-26dBm/MHz) (2387MHz＞f ; 2496.5MHz＜f)
	≦25μW(-16dBm/MHz) (2387MHz≦f＜2400MHz) and (2483.5MHz＜f≦2496.5MHz)
	For Channel 14 Transmitter Operating Below 2458MHz: 2.5μW(-26dBm/MHz) or less (-26dBm) Transmitter Operating Between 2458 to 2471MHz: 25μW(-16dBm/MHz) or less (-16dBm) Transmitter Operating 2497 through 2510: 25μW(-16dBm/MHz) or less (-16dBm) Transmitter Operating Above 2510: 2.5μW(-26dBm/MHz) or less (-26dBm)

3.4.2. Measuring Instruments

See list of measuring instruments of the 2.6 section.

3.4.3. Test Procedures

1. EUT have transmitted the maximum power and fixed channelize.
2. Setting of SA is following as: RBW: 1MHz / VBW:1MHz, Sweep time : Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.
3. Setting of SA is following as: start frequency 30MHz and stop frequency 2387MHz Then to mark peak reading Value + cable loss shall be less than 2.5μW(-26dBm/MHz).
4. SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading Value + cable loss shall be less than 25μW(-16dBm/MHz).
5. SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz. Then to mark peak reading Value + cable loss shall be less than 25μW(-16dBm/MHz).
6. SA adjusted to start frequency 2496.5MHz and stop frequency 13000MHz. Then to mark peak reading Value + cable loss shall be less than 2.5μW(-25dBm/MHz).
7. If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

3.4.4. Test Setup

See clause 2.4 for block diagram of test setup.

3.4.5. Test Results of Conducted Spurious Emissions – TX Operating

Please refer to Appendix B and C.

3.5. Carrier sense function

3.5.1. Limit

The radio equipment connected to telecommunication circuit equipment shall be equipped with a device which detects emissions radiated from another radio station and prevents interference, or a device which prevents interference by operation on a receive signal and a signal for diffusion for signal level detection.

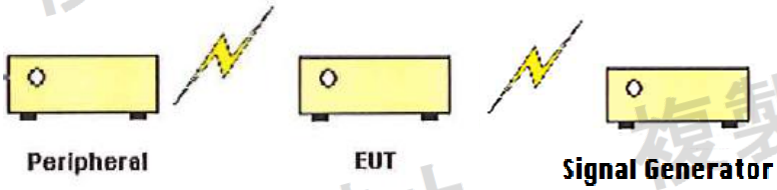
3.5.2. Measuring Instruments

No.	Description	Manufacturer	Model	Serial Number	Approved type
1	Wireless Router	TP-LINK	Archer C9	2158161000011	☑TBL ID: D16-0002018

3.5.3. Test Procedures

1. Control the wireless Router work at 11n HT40 mode (For OBW≧26MHz) by software.
2. Link EUT with wireless Router Via Wireless ,Let EUT work in normal transmitting mode.
3. Set the signal generator at same frequency channel with a proper signal level output to act as interference signal.
4. Monitor the signal transmission between EUT and wireless Router, when interference signal presents, the EUT would stop transmitting once it detects interference signal over their, then it pass. Otherwise the Result is fail.

3.5.4. Test Setup



Peripheral: Wireless Router

3.5.5. Test result

Please refer to Appendix B and C.

4. MEASUREMENTS OF RECEIVER PARAMETERS

4.1. Secondary Radiated Emissions (Conducted)

4.1.1. Limit

Item	Limits
Rx Spurious Emission	≦4nW(-54dBm/100kHz) (f＜1GHz)
	≦20nW(-47dBm/MHz) (1GHz≦f)

4.1.2. Measuring Instruments

See list of measuring instruments of 2.6 section.

4.1.3. Test Procedures

1. EUT have the continuous reception mode and fixed only one channelize.
2. SA set RBW: 100KHz and VBW: 300KHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW(-54dBm/100kHz).
3. SA set RBW: 1MHz and VBW:3MHz. Then adjust to start frequency 1000MHz and stop frequency13000MHz. Search to mark peak reading value + cable loss shall be less than 20nW(-47dBm/MHz).
4. If power level of lower emissions are more than 1/10 of limit(0.4nW(-64dBm/100kHz) for f＜1GHz,2nW(-57dBm/MHz) for f≧1GHz), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit ,no necessary to be indicated.

4.1.4. Test Setup

See clause 2.4 for block diagram of test setup.

4.1.5. Test Results of Conducted Spurious Emissions – RX Operating

Please refer to Appendix B and C.

5. MEASUREMENT OF OTHER PARAMETERS

5.1. Interference Prevention Function

5.1.1. Limit

Item	Limits
Identification	≥48bits

5.1.2. Measuring Instruments

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Wireless Router	---	D-Link	DI-624+A	NI624+ACEUA1	☑FCC ID: KA2DI524 ☐BSMI ID

5.1.3. Test Procedures

1. In the case that the EUT has the function of automatically transmitting the identification code:
   a. Transmit the predetermined identification codes form EUT.
   b. Check the transmitted identification codes with the demodulator.

2. In the case of receiving the identification code:
   a. Transmit the predetermined identification codes form the counterpart.
   b. Check if communication is normal.
   c. Transmit the signals other than predetermined ID codes form the counterpart.
   d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

5.1.4. Test Results

TX: The transmitting mode of EUT is on normal operating, the interference prevention function is okay.

RX: The receiving mode of EUT is on normal operating, the interference prevention function is okay.

The ID Code of this WiFi device is 3C:9F:CD:57:1E:02 as below list：

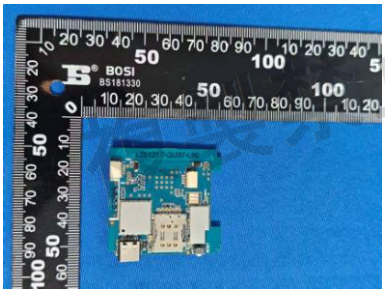
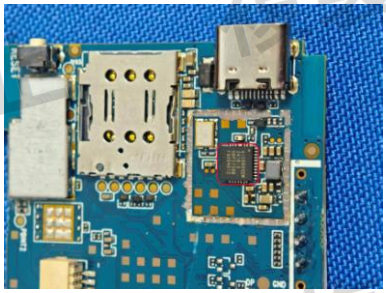
3C:9F:CD:57:1E:02

5.2. Construction Protection

5.2.1. Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

5.2.2. Confirmation Method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	RF modulation parts and ID-ROM be welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other:

5.2.3. The Photos of Construction Protection